

TENDER ENQUIRY

Dt. 17.11.2021

Tender Ref. No: MP1/10 T CRANE /SCI MUKTA/CMSRU

Dear Sir,

Sealed Tenders in **Two Bid**, super scribing the Enquiry Number & Last date for receipt of Quotations on the envelope, are invited in two separate covers as 'Part I Techno Commercial' & 'Part II Price' for **TURNKEY PACKAGES FOR SUPPLY, INSTALLATION & COMMISSIONING OF 10 TON CRANE at CMSRU.**

1 The offers as above should reach the undersigned on or before the last date and time shown. Tenders should be addressed to "The General Manager (CMSRU), Cochin Shipyard Ltd-Mumbai Ship Repair Unit, Mumbai Port Trust, and Mumbai-400001".

2. **Techno - Commercial offers can also be made by e-mail, with price bid duly Locked with password, before 15.00 hrs (IST) on 30 November 2021, if delivery of sealed offers cannot be ensured at CSL on the due date.**

3. The offer shall indicate payment terms and other terms and conditions.

4. Quotation should be valid for a period of 45 days.

6. Quotation can be submitted by email as a password protected document (price part only) to the following email address.

loganathan.m@cochinshipyard.in.

ranul.n@cochinshipyard.in.

niranjana.kumar@cochinshipyard.com.

jayan.kt@cochinshipyard.com

OR

In a sealed envelope addressed to "The General Manager (CMSRU), Cochin Shipyard Ltd-Mumbai Ship Repair Unit, Mumbai Port Trust, Mumbai-400001".

Last Date & Time of Receipt of Tender: 30 November 2021 at 15.00 Hrs IST.

Tender Opening date & time: 30 November 2021 at 15.00 Hrs IST.

NOTE: Amendment if any will be notified on CSL/Govt. Website. The bidders are requested to keep themselves informed of the development by visiting CSL website www.cochinshipyard.com and the CPP portal www.eprocure.gov.in regularly. Such amendments shall be binding upon them.

Enclosures: -

1. Special Instruction for Two Bid Systems.
2. Scope of work, Technical specifications
3. Price bid format.
4. Rules for engaging workmen at CMSRU.
5. Specific Terms & conditions.
6. General Terms & conditions.
7. Compliance matrix.
8. HSE Guidelines.

Signed copy of following documents shall be submitted along with *unpriced Price bid format clearly indicating quoted/not quoted* against each job scope as per CSL P- bid format (Un priced bid no need to protect with password, if send as soft copy in E mail).

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Price bid duly signed and sealed by the authorized person need to be protected with password and shall be separately attached/enclosed in the mail. Offer submitted in single bid will not be considered.

In case of technical queries, please contact Shri.Gokul R K (DM-CMSRU) (Mob No. 9321353956)

Yours faithfully,

General Manager (CMSRU)

COCHIN SHIPYARD LIMITED

Mumbai-400001.

SPECIAL INSTRUCTION FOR TWO BID SYSTEMS

1. MODE OF SUBMISSION OF TENDERS

Tenders should be submitted in two separate sealed covers super scribed in capital letters as **PART-I "TECHNO-COMMERCIAL" & PART-II "PRICE"** indicating the tender number, due date and name & address of the tenderer.

2. TECHNO-COMMERCIAL PART SHOULD CONTAIN FOLLOWING DETAILS:-

- I. Drawings & Technical Literature, if any
- II. Other conditions, if any
- III. Signed and stamped copy of TENDER TERMS AND CONDITIONS (Annexure 1)
- IV. Deviation list, if any
- V. Price bid without price clearly indicating quoted/ not quoted against each line item/
DL.

3. PRICE PART SHOULD CONTAIN FOLLOWING DETAILS:-

- a. Price against each work.
- b. Taxes & duties as applicable shall be indicated.

4. CSL reserves the right to alter, modify the scope of supply at their discretion as applicable to the contract from time to time.

5. The Techno-commercial part alone will be opened initially on the due date and time of tender. The price part will be opened only after evaluation of the Techno commercial Part. Firms will be intimated the date of opening of the price part, whose Techno-commercial bid is acceptable, in due course.

6. The tenderer shall ensure that their Indian Agent is not representing any other suppliers for the same Tender. In other words, Indian Agents are not permitted to represent more than one firm for a particular Tender.

7. Deviations, if any, in the offer submitted from that of the tender enquiry in any form, should be clearly furnished in a separate document titled as "List of Deviations".
8. Details of optional items, if any, should be indicated under separate heading in the technical bid and the respective price details should be given in the price bid.
9. After submission of quotation / price bid opening, no unsolicited correspondence will be entertained.
10. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing amending the data/conditions already submitted with the tender.
11. Price should be quoted separately for each item. Combining of figures against more than one item and ambiguous clauses will lead to rejection of the bid.
12. Offers should be clear and unambiguous. Incomplete/ambiguous offers are likely to be rejected.
13. The bidder shall submit a signed & sealed copy of the tender document including the TENDER TERMS AND CONDITIONS (Annexure 1) along with their bid as token of acceptance of terms & Conditions.
14. An Integrity Pact as per CSL format is to be signed and submitted later (if necessary).
15. The quantity projected in the scope of work is estimated. There may be upward/downward variations in actual quantity.

General Manager (CMSRU)

SCOPE OF WORK ENCL.2

SL NO	D/L REFERENCE	MATERIAL / SERVICE DESCRIPTION	STAGE	UOM	QTY
1	D20005.22	PORT & STBD WINDLASS GEAR WHEEL/SPOKES TO BE GRIT BLASTED & PAINTED	1	SET	2
2	D20005.23	PORT & STBD WINDLASS BRAKE LINING TO BE RENEWED WITH ASBESTOS FREE MATERIAL, ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.	1	SET	1
3	D20005.24	PORT & STBD WINDLASS's GYPSY'S TEETHS WORN OUT, SAME TO BE REWELDED WITH HIGH QUALITY ELECTRODES AND TO BE GRINDED TO PROPOER SHAPE.	1	SET	1
4	D20005.25	ONE NO GYPSY OF THE WINDLASS TO BE REMOVED, AND TO BE RENEWED WITH NEW SHIP SUPPLIED GYPSY.	1	SET	1
5	D20021.1	WHEELHOUSE WINDOW WIPERS (06 NO) RUBBER DAMAGED TO BE RENEWED	1	NOS.	6
6	D20021.2	NAVIGATION SIDE LIGHT BASE PLATE CORRODED. SAME TO RENEWED AND COAT WITH BLACK MAT PAINT. MATERIAL MS 8 MM PLATE	1	SQ MTR	6
7	D20021.3	WHOUSE WINDOW WIPER FLUSHING NOT WORKING TO BE REPAIRED.	1	NOS	2
8	D20021.4	MAIN MAST CHRSTMAS TREE SUPPORTIN BAR & PLATFORM TO BE REPAIRED.	1	LS	10
9	D20021.5	ALL CLINOMETERES TO CHECK AND ADJUST.	1	LS	1
10	D20021.6	FWD SEARCH LIGHT BOTH SUPPORT BRACKETS BROKEN, TO BE RENEWED	1	NOS	1
11	D20021.8	MONKEY ISLAND RAM LIGHT (NAV.LT) POST STBD SIDE BROKEN TO BE REPAIRED.	1	NOS	1
13	D20023.1	SUPERSTRUCTURE 5 CABINS PORTHOLES ARE LEAKING SAME TO ARREST BY CHANGING PACKING AND WITH SEALING COMPOUND. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR.	1	SET	10
14	D20024.1	RUBBER PACKING OF FOLLOWING TO BE RENEWED : WEATHER TIGHT DOOR: - MONKEY ISLAND FUNNEL DOOR 02 NOS, BRIDGE DK 02 NOS, C DK 03 NOS, B DK 02 NOS, A DK 03 NOS, MAIN DK 11 NOS (TOTAL 23 NOS.) 05 NOS. BOOBY HATCHES, VENTS AND FLAPS .	1	MTR	150
15	D20025.1	RENEWAL OF FW TAPS (06 NOS), FLUSHES (04 NOS), SHOWER HEAD (06 NOS), MIXER (04 NOS), FAUCETS (06 NOS).	1	NOS	26
16	D20025.2	RENEWAL OF REXIN COVERS AT VARIOUS PLACES.	1	M2	25
17	D20025.3	CABIN TOILET SEAT COVER BROKEN.	1	NOS	6
18	D20025.4	TOILET TILES TO BE RENEWED AND EPOXY SEALANT TO BE PUT PRIOR FITMENT OF TILES.	1	M2	30
19	D20025.5	DECONTAMINATION AREA BOTH SIDE EYE STEEL FOLLOWING TO BE RENEWED. 1. WASH BASIN, 2. FOOT PADEL, 3. SHOWER HEAD, 4. BALL VALVE, 5. SPRING (SS MARERIAL). SS BOLTS TO BE USED AS REQUIRED. ALL THE 4 EYE WASH ARRANGEMENT TO BE TESTED AND SATISFACTORY OPERATION TO BE SHOWN.	1	NOS	4
20	D20025.6	RECOVERY ROOM VACUUM TOILETS FLUSH SYSTEM 03 NO. NOT WORKING. TO BE REPAIRED. SPARES TO BE SUPPLIED BY CONTRACTOR.	1	NOS	3
21	D20025.7	WATER COOLERS INSIDE GALLEY TO BE FITTED (SHIP SUPPLY).	1	NOS	1
22	D20025.8	WEATHER TIGHT DOOR LOCK TO BE RENEWED.	1	NOS.	3
23	D20025.9	GALLEY DRY PROVISION STORE DOOR INSIDE LOCKING ARRANGEMENT TO BE RENEWAL.	1	NOS.	1
24	D20025.10	REMOVAL AND REFIT OF PANELLING AND INSULATION IN ACCOMODATION AREA FOR VARIOUS JOBS.	1	M2	10
25	D20026.1	WATER LEAKING THROUGH TOWING PIN'S AND SHARK JAW, TO MAKE WATER TIGHTNESS. AND TO MAKE ARRANGEMENT FOR FITTING OF TOWING PIN AND SHARK JAW COVER.	1	LS	2
26	D20026.2	02 NOS LIFE BUOYA S.I LIGHT BRACKET BROKEN,NEW BRACKET TO BE FITTED.	1	NOS.	8
27	D20026.3	RESCUE ZONE NET ASSEMBLY BROCKEN/ DEFECTIVE TO BE REPAIRED	1	NOS.	1
28	D20026.4	DECK LIGHT BASE, STAND, WIRE HOLDING FLAT BAR TO BE RENEWED.	1	NOS.	3
29	D20026.5	LIFEJACKET BOXES ON BOAT DECK HINGES BROKEN	1	NOS	1
30	D20026.6	LIFE BUOY STAND ON MAIN DECK CORRODED, TO BE RENEWED AT STBD QTR	1	NOS	2
31	D20026.7	BA COMPRESSOR BOX DOOR HINGES BROKEN	1	NOS	1
32	D20026.8	CARGO MANFOLDS VALVES OF CEMENT, BARYTE, BO, FO & FW/DW TO BE OVERHAULED	1	NOS	8
33	D20026.10	LINE LEADING TO SAVE ALL TANK FROM DRIP TRAY INSIDE TANK 58 HOLED. SAME TO BE RENEWED WITH SCH 40 X 150 NB PIPE. TWO FLANGES TO BE SPOOLED IN BETWEEN.	1	MTR	1
34	D20026.11	COMPANION LADDER HAND RAILS WASTED. TO BE RENEWED. (1.5 INCH)	1	MTR	10

35	<u>D20026.12</u>	PIPE CLAMPS TO BE RENEWED (WITH RUBBER PACKING) INSIDE VARIOUS TANKS AND ON DECK. (200 MM - 24 NOS, 150MM - 24 NOS, 100 MM- 24 NOS, 75 MM - 24 NOS) ** 30 % DELETED FROM QTY OF 96.	1	NOS	67
36	<u>D20026.13</u>	AH GYPSY ON MAIN DECK FROZEN, SAME TO BE MADE FREE AND LUBRICATED.	1	NOS	2
37	<u>D20027.1</u>	14 NO TYRE FENDERS AND 6 NO. CIRCULAR FENDERS TO REMOVE TO FACILITATE BLASTING AND PAINTING OF SHIP SIDE. ALL FENDERS ARE TO BE FITTED BACK AFTER STEEL RENEWAL AND BLASTING PAINTING	1	NOS.	14
38	<u>D20027.2</u>	TYRE FENDER CHAINS TO RENEW -GI CHAIN (TO BE SUPPLIED BY CONTRACTOR)	1	MTR	120
39	<u>D20027.3</u>	GI SHACKLES TO RENEW & TAG WELDED (TO BE SUPPLIED BY CONTRACTOR)	1	NOS.	120
40	<u>D20027.4</u>	CONSIDER RENEWAL OF 20 NOS THINNED DOWN/CORRODED EYE PADS AND 20 NOS THINNED DOWN/BENT/CORRODED SHOE PLATES(10MM PLATE TO BE USED). DIMESION OF NEW EYE PADS AND LENGTH OF SHOE PLATES TO BE AS PER EXISTING ITEMS. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR.(20 Eye pads + 20 Shoe plates)	1	NOS.	40
41	<u>D20027.5</u>	SUPPLY AND FITTING OF USED AIRCRAFT TYRE FENDERS, CLASS B USED AIRCRAFT TYRE FENDER APPROX. 900-1000 MM OD, 2 LENGTH 2.5 M/L OF 3/4" GALV CHAIN, 4 PICESES 3/4" GALV. SCREW PIN D-SHACKLES ONLY. 4 SETS OF SUPPLIER DESIGNED HOLE SHIELDS, MATERIAL : MILD STEEL, (SIUTABLE 3/4" GALVC. CHAIN TO RUN THROUGH). ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR.	1	NOS.	4
42	<u>D20027.6</u>	PERMANENT VERTICAL RUBBER FENDERS ON BOTH SIDE ARE DAMAGED. TO BE FITTED NEW FENDERS. SEMI-CIRCULAR D-SHAPED FENDERS. LENGTH 3 MTRS EACH , SIZE - 3.0 M X 0.4M X 200MM, FENDER SHIP SUPPLY. FENDER HOLDING BRACKETS TO BE RENEWED (03 MTR). ALL FENDERS WIDTH TO BE CUT AS PER BRACKET WIDTH.	1	NOS.	16
43	<u>D20027.7</u>	CIRCULAR RUBBER FENDER ON BOTH QTR BROKEN TO BE RENEWED. FENDER SHIP SUPPLY. CHAIN, SHACKLES AND EYE PADS TO BE SUPPLIED BY CONTRACTOR.	1	NOS.	6
44	<u>D20031.1</u>	ANNUAL INSPECTION OF SCBA & PRESSURE TEST OF SCBA BOTTLES - ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	20
45	<u>D20031.2</u>	ANNUAL INSPECTION OF EEED & PRESSURE TEST OF EEED- ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	27
46	<u>D20031.3</u>	ANNUAL INSPECTION OF PERSONNEL TRANSFER BASKET & LOAD TEST OF BASKET- ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1
47	<u>D20031.4</u>	LOAD TEST OF GANG WAY - ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1
48	<u>D20031.5</u>	LOAD TEST OF CRANE - ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1
49	<u>D20031.6</u>	CARGO HOSE PRESSURE TEST.& ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	5
50	<u>D20031.7</u>	HP TEST OF HOSPITAL OXYGEN CYLINDER- ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1
51	<u>D20031.8</u>	TO CARRY OUT AIR QUALITY ANALYSIS OF BEATHING AIR COMPRESSOR AND ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1
52	<u>D20031.9</u>	TO CARRY OUT FOAM ANALYSIS TEST AND ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1
53	<u>D20031.10</u>	TO CARRY OUT CALIBRATION OF ALCOHOL METER AND ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1
54	<u>D20031.11</u>	FIRE HOSE BOXES SIZE 610X460X300 MM, TO BE PROCURE AND SUPPLY AND FIT	1	NOS	5
55	<u>D20031.12</u>	ALL PORTABLE CO2 EXTINGUISHERS HP TESTING TO BE CARRIED OUT-ISSUE CERTIFICATE FOR THE SAME	1	NOS	24
56	<u>D20031.13</u>	ALL PORTABLE DCP EXTINGUISHERS HP TESTING TO BE CARRIED OUT-ISSUE CERTIFICATE FOR THE SAME	1	NOS.	20
57	<u>D20032.1</u>	DISCHARGE PIPING AND NOZZLES (18 NOS) TO BE TESTED FOR ANY BLOCKAGE, DISCH. PIPING SHOULD BE ISOLATED FROM THE SYSTEM AND AIR BLOW THROUGH TO BE CARRIED OUT. MAIN LINE &PILOT LINE TO BE PRESSURE TESTED. ONE MAIN CO2 DISCHARGE V/V/S TO BE INSPECTED & TWO CO2 MANIFOLD RELIEF /SAFETY VALVE TO BE TESTED TO LIFT AT 180 KG/CM2	1	LS	1
58	<u>D20032.2</u>	15 NOS. OF CO2 CYLINDER (45KGS) AND 2 NOS. OF PILOT CYLINDER (2.7 KGS) WEIGHMENT TO BE CARRIED OUT.	1	LS	1
59	<u>D20032.3</u>	MAIN CO2 CYLINDER AND PILOT CYLINDER TO BE PRESSURE TESTED. NO OF CYLINDER AS PER 10 YEARLY MAINTENANCE GUIDELINE (MSC.I/Circ.1318 DATED 11 JUNE 2009)	1	LS	1
60	<u>D20032.4</u>	FLEXIBLE HOSE TO BE PROCURE ,SUPPLY AND RENEW , MAKE- ALFAGOMMA FRANCE, SIZE : 7/8"X3/4"X18" LONG = 14 NOS, SIZE : 7/8"X3/4"X750MM LONG = 04 NOS,	1	LS	1
61	<u>D20032.5</u>	VISUAL AND AUDIBLE ALARM TO BE CHECKED, BLOWER AND OIL PUMP TRIP ON ACTIVATION OF CO2 ALARM TO BE CHECKED FOR PROPER WORK. ON COMPLETION OF WORK, CO2 SYSTEM TO BE KEPT IN READINESS	1	LS	1
62	<u>D20032.6</u>	CO2 FIXED FIRE FIGHTING INSTALATION FOR PAINT LOCKER- 10 YEARLY ROUTINE TO BE CARRIED OUT	1	LS	1
63	<u>D20032.7</u>	CO2 FIXED FIRE FIGHTING INSTALATION FOR GALLEY- 10 YEARLY ROUTINE TO BE CARRIED OUT	1	LS	1
		THE FOLLOWING PUMPS TO BE OVERHAULED . PUMP BASES AND FOUNDATION TO INSPECT . PUMP PARTS E.G WEAR RINGS, BUSHES, AND BALL BEARINGS TO INSPECT AND RENEW AS REQUIRED . PUMP TO BE TRIED OUT FOR SATISFACTORY OPERATION. BEARINGS AND CONSUMABLES SUCH AS WEAR RINGS & BUSHES TO BE SUPPLIED BY CONTRACTOR.	1		
64	E20009.1	SYSTEM 1 AND 2 SEA WATER PUMP FOR PME &SME , ALLWEILLER NB80-160W3 ,120.5/60M3/H@25.2/6.27M HEAD	1	NOS	2
65	E20009.2	SLUDGE PUMP AND BILGE PUMP TO BE OVERHAULED- MAKE: ALLWEILER AS, NORWAY, TYPE- AEB 1L0101-1E, 011PO1144PGOK,CAP-5.1MCUB/HR,DIFF PR -2BAR, POWER-0.9KW.	1	NOS	2
66	E20009.3	AHT COOLING S.W P/P #1 & 2 TO BE OVERHAULED, ALLWEILLER NB 050-125/01/137 U3, 60 M3@30M HEAD	1	NOS	1

67	E20009.5	EMCY FIRE P/P ALLWEILLER 35CUM/HR@60 MTR HEAD,6BAR PRESSURE	1	NOS	1
68	E20009.6	GENERAL SERVICE AND FIRE AND GS PUMP, ALLWEILER CENTRIFUGAL P/P, 45M3/HR@60M HEAD	1	NOS	2
69	E20009.6.1	SYSTEM 3 FRESH WATER PUMP TO BE OVERHAULED. ALLWEILLER AG, TYPE:-NB125-250W3, CAPACITY:-250.4/125 M3/Hr @ 30.1/7.44 M HEAD, SPEED:- 1770/880 RPM	1	NOS	1
70	E20009.6.2	F.O PURIFIER GEAR PUMP TO BE OVERHAULED. MAKE:- TUSHACO, MODEL:- T3ST 32/38, CAPACITY:- 21 M3/Hr, SPEED :-2920	1	NOS	1
71	E20009.6.3	STEERING GEAR BILGE PUMP TO BE OVERHAULED. MAKE:- ALLWEILLER AG, TYPE:- ECCENTRIC SCREW PUMP, SERIAL NO:-9052481, CAPACITY:- 5 M3/Hr, SPEED:- 752 RPM, HEAD:- 20 M.	1	NOS	1
72	E20009.6.4	ENGINE ROOM BILGE PUMP TO BE OVERHAULED.	1	NOS	1
73	E20009.6.5	F.O STAND BY (MDO) PUMP FOR BOTH ME TO BE OVERHAULED. MAKE:-LEISTRITZ, TYPE:- L3NG-032/064-AFOKII-G, CAPACITY 38.7 L/MIN, SPEED:-1750 RPM.	1	NOS	1
74	E20009.6.6	PORT AND STBD STAND BY L.O PUMP TO BE OVERHAULED. MAKE:- LESTRIZ, TYPE:- L3NG-90/152-ASOJII-G, CAPACITY:- 950 L/MIN.	1	NOS	2
75	E20009.6.7	PORT AND STBD STAND BY R/G PUMP TO BE OVERHAULED.	1	NOS	2
76	E20009.6.12	F.O TANSFER PUMP TO BE OVERHAULED. MAKE:- LEISTRITZ, TYPE:- L3NG-032/064-AFOKII-G, CAPACITY:-38.7 L/ MIN, SPEED:- 1750	1	NOS	1
77	E20009.6.13	DRILL AND BALLAST WATER PUMP TO BE OVERHAULED. MAKE:- ALLWEILER AS, TYPE:- TWIN SCREW OIL PUMP, CAPACITY:- 150 M3/ Hr, SPEED :-3600 RPM.	1	NOS	1
78	E20009.6.14	F.O OIL CARGO PUMP TO BE OVERHAULED. MAKE:- ALLWEILER AS, TYPE:- TWIN SCREW OIL PUMP, CAPACITY:- 110M3/Hr, SPEED:- 3500 RPM.	1	NOS	1
79	E20009.6.15	IOPP BIGE PUMP TO BE OVERHAULED. PUMP CAPACITY:- 3 M3/Hr, MOTOR RATING:1.1 KW, 440 VOLT, 60 HZ.	1	NOS	1
80	E20009.7	SYSTEM 3 F.W AND S.W BACK UP P/P ,NB125-250/-U3.1D-W18- IEC 180.CAPACITY:200M^3/HRS, HEAD - 30M,RPM-1750.	1	NOS	3
		FOLLOWING COOLERS/ CONDENSERS TO CLEAN & PRESSURE TEST(CINTRACTOR TO USE BRUSH AND CHEMICAL). THE NEW GASKETS/ O'RINGS TO USE (CONTRACTOR SUPPLY) AND SATISFACTORY TRIAL TO BE GIVEN:-	1		
81	E20010.2	BOTH MAIN ENGINES L.O COOLERS TO BE CHEMICALLY CLEANED & PR TESTED, CAP- 71.1SQ.MTR (PLATE TYPE) EACH.	1	SETS	2
82	E20010.3	BOTH MAIN ENGINES LT COOLER, CAP- 65.7 SQ.M (PLATE TYPE) EACH.	1	SETS	2
83	E20010.4	BOTH C.P.P L.O COOLER- CAP- 2.5 SQ.M (TUBE AND SHELL TYPE) EACH	1	SETS	2
84	E20010.5	SYS 1&2 HT COOLER (PLATE TYPE)CLEANING	1	SETS	2
85	E20010.6	SYSTEM-3 CENTRAL COOLER (PLATE TYPE) TO BE CLEANED.	1	SETS	1
86	E20010.7	ECR A/C AND WHEEL HOUSE A/C COOLERS (SHELL &TUBE) TO BE CLEANED	1	SETS	2
87	E20010.8	AHT HYD L.O COOLER TO BE CLEANED	1	SETS	1
88	E20015.10	PROCURE AND SUPPLY NEW BUTTERFLY VALVE. LUG TYPE, SIZE :200 NB, CAST IRON BODY, STAINLESS STEEL STEM AND DISC, REPLACEABLE NBR RUBBER SEAT, 10 BAR, WORM GEAR OPERATED MOUNTING BETWEEN JIS 5K/10K & DIN PN 16 FLANGES NOTE: ONLY 2 NOS.	1	NOS	2
89	E20015.11	PROCURE AND SUPPLY NEW BUTTERFLY VALVE LUG TYPE LEVER OPERATED, SIZE : 150 NB, F6421 JIS 10K CAST IRON BODY, STAINLESS STEEL STEM, ALU-BRONZE DISC, NBR RUBBER SEAT, LUG TYPE,	1	NOS	2
90	E20015.12	PROCURE AND SUPPLY NEW BUTTERFLY VALVE LUG TYPE LEVER OPERATED, SIZE : 125 NB, F6421 JIS 10K CAST IRON BODY, STAINLESS STEEL STEM, ALU-BRONZE DISC, NBR RUBBER SEAT, LUG TYPE,	1	NOS	2
91	E20015.13	PROCURE AND SUPPLY NEW BUTTERFLY VALVE LUG TYPE LEVER OPERATED, SIZE : 100 NB, F6421 JIS 10K CAST IRON BODY, STAINLESS STEEL STEM, ALU-BRONZE DISC, NBR RUBBER SEAT, LUG TYPE,	1	NOS	2
92	E20022.3	BILGE SUCTION VALVE'S LID MISSING, SDNR VALVE DN100 – 01 NO. FLANGE TYPE. FLANGE TO FLAGE – 378 MM, FOR PIPE OD- 110MM. NEW VALVE TO BE PROCURE AND SUPPLY	1	NOS	1
93	E20022.4	AUX ENGINE LT WATER INLET AND OUT VALVE, GLOBE VALVE, SIZE: DN 60 TO BE PROCURED AND SUPPLY	1	NOS	4
94		SUPPLY OF 10T ELECTRO-HYDRAULIC CRANE AS PER ATTACHED TECHNICAL SPECIFICATION.	2	LS	1
95		PACKING, FORWARDING AND TRANSPORTATION CHARGES	2	LS	1
96		PREPARATION OF ALL DRAWINGS AND DOCUMENTS AS PER SCOPE OF WORK INCLUDING ALL APPROVALS FROM IRS	2	LS	1
97		INSTALLATION OF 10T ELECTRO-HYDRAULIC CRANE ONBOARD SHIP WITH ALL NECESSARY MODIFICATION WORKS. (PROCUREMENT OF ALL MATERIALS IN THE SCOPE OF CONTRACTOR).	2	LS	1
98		COMMISSIONING OF CRANE INCLUDING ALL TRIALS AND APPROVALS BY COMPETENT AUTHORITY	2	LS	1

Scope of Supply for 10T crane.

MP1/10 T CRANE/SCI MUKTA/CMSRU

ENCL.2

Electro-Hydraulic (telescopic type) marine crane is to be an enclosed type jib crane having electro-hydraulic driving machinery such as a hoisting winch, a luffing cylinder, telescopic cylinder a slewing gear and it is to be remotely operated by one man from an operator's platform & remote control.

Electro-hydraulic (telescopic) marine crane is to be designed and constructed so as to serve for marine use, and it is to be mounted on the deck. The main construction, machinery and equipment including cargo gears are to be of the maker's standards satisfied with rule requirements of the IACS Manufacture Quality and lifting gear certificate. Certificate required by Dock labour board for lifting appliances.

After completion of the crane, it is to be tested in the shop under the IACS class surveyor to confirm its performance and workmanship, and then it shall be delivered to the shipyard under the responsibility of the crane maker.

The following are under the firm's scope of supply:

- Complete supply of equipment with starter, mating flange, foundation bolts, deck seating etc. (All fasteners shall be of Stainless-steel marine grade quality) with remote cable control panel (storage place on crane is to be provided for this panel).
- Crane shall be supplied with suitable pedestal of convenient working height as specified.
- Vertical ladder/ rung ladder shall be fitted on pedestal of crane for routine maintenance.
- Crane jibs shall be provided with jib rest.
- Initial filling of hydraulic oil and lubricants shall be in firm's scope.
- Hoisting winch with ropes sufficient for lifting items from approximate 10 meters below deck base.
- Talley plates and diagram plates giving operating instruction (Brass engraved) Talley plates giving S.W.L. & radius (Brass engraved) are to be mounted at suitable location. Tally Plates shall prominently display the following information: -
 - Manufacturer's Name
 - Manufacturer's Serial No. Type/Model:
 - Year of Manufacture.
 - Electrical parameters as applicable
 - Weight of equipment
 - The weight of the crane should be indicated in the offer.
 - The crane supplied to be bolted on to the pedestal which will be welded on to the deck. The following details are to be forwarded, along with technical offer:
 - Weight break-up with position of center of gravity (CG of crane to be indicated in both stowage and operating condition) - Electric diagram - General arrangement plan (i.e., plan, front elevation, side elevation of the crane indicating dimensions.)
 - Crane is to be inspected and certified by IRS/ IACS member class at manufacturer premises.
 - Product support:

The supplier should confirm product support after delivery of the equipment. In any case, the equipment is likely to become obsolete, the supplier should communicate to give a three year notice to SCI to access the requirement of lifetime buy of spares. The supplier should also ensure supply of these items prior to

discontinuation of production facilities. OEM should be able to support for spares and service for Minimum 20 Years from the date of commissioning.

- Electric motor details:
 - Enclosure: IP56
 - Insulation class: F
 - Temperature rise: B

- Cable specifications: XLPE, copper cable, annealed and tinned, stranded copper conductor. The cable size shall be suitable for the motor KW power rating.
- All safety cut outs such as overload, hoisting, over current etc. and all controls as per class shall be provided same shall be shown to class/client during Factory acceptance test.
- The Crane shall be operational throughout the vessel's life time.
- The crane to be painted with Painting Scheme suitable for Marine environment with a finish colour of white.
- On-board spares

The On-board Spares Meeting Classification rule requirements and as recommended by OEMs for on board maintenance routines and possible repair requirements for two years shall also be part of supply. An itemized list of OBS indicating cost of each spare, to be furnished along with the quotation for main equipment.

10.21 Documentation in Hard and soft copies (Three sets to be provided):

- Finished Plans/Drawings.

- Suppliers and makers drawings for machinery.

- Instruction books.

- Maintenance manual.

- Operating manuals.

- Installation Manual/Handbook.

- Inter-unit cable diagrams.

- Spare parts list.

- Physical Dimensional drawings.

- FAT report.

- Commissioning report including onboard load test.

- Load Test Certificates.

- Class certificates.

TECHNICAL SPECIFICATIONS OF THE CRANE**PEDESTAL MOUNTED ELECTRO HYDRAULIC (TELESCOPIC TYPE) 10T CRANE- 1 No**

1	<u>DESIGN CONDITIONS</u>	
	CERTIFICATION	CLASS APPROVAL FROM IACS MEMBER
	CONDITION OF CARGO WORK	SEA STATE 4
	AMBIENT TEMPERATURE	45 DEGREE CENTIGRADE
	SEA WATER TEMPERATURE	32 DEGREE CENTIGRADE
2	<u>PRINCIPAL PARTICULARS</u>	
	TYPE	ELECTRO-HYDRAULIC MARINE CRANE
	BOOM TYPE	To be specified (preferably telescopic type)
	MAX. HOISTING LOAD	10.0 T AT MARINE USE (UNDER RIGGING HOOK)
	RADIUS	MAXIMUM WORKING RADIUS OF THE CRANE TO BE FROM 13-15 METRES AND THE BOOM LENGTH IN FULL RETRACTION OF CRANE SHOULD NOT BE MORE THAN 10 METRES.
	MAX.HOISTING HEIGHT	25 M AT MAX. RADIUS
	HOISTING SPEED	0~10 M/MIN AT RATED LOAD
	LOWERING SPEED	UP TO 10 MT , APPROX. 0~10 M/MIN
	LUFFING TIME	60 SEC APPROX
	SLEWING SPEED	1.0 R.P.M (PREFERRED)
	ELECTRIC MOTOR	Enclosure: IP56 Insulation class: F Temperature rise: B
	ELECTRIC POWER REQUIREMENT (operation simutaneously for hoisting and telescopic movement)	MAX. UP TO 55 KW
	Cable specifications:	XLPE, copper cable, annealed and tinned, stranded copper conductor. The cable size shall be suitable for the motor KW power rating.
	STARTING METHOD	TO BE SPECIFIED
	POWER SUPPLY	440V, 60 Hz 3 phases
	OPERATOR CONTROL	OPERATOR PLATFORM WITH SEAT AND REMOTE CONTROL
	WORKING CONDITION	OFF BOARD LIFT TYPE
	SLEWING ANGLE	360 DEGREES CONTINUOUS
	HEEL/TRIM	5 DEGREE/2 DEGREE
	NOTE:	a) The equipment shall be compact, lightweight & robust in construction and suitable for marine b) use to withstand shock/vibrations incidental to ship movements.
		b) The crane supplied to be bolted on to the pedestal which will be welded on to the deck.
		c) Complete supply of equipment with starter, mating flange, foundation bolts, deck seating etc. d) (All fasteners shall be of Stainless-steel marine grade quality) with remote cable control panel (storage place on crane is to be provided for this panel)
		d) Crane shall be supplied with suitable pedestal of convenient working height.

		e) Vertical ladder/ rung ladder shall be fitted on pedestal of crane for routine maintenance.
		f) Crane jibs shall be provided with jib rest
		g) Initial filling of hydraulic oil and lubricants shall be in OEM/Supplier scope.
		h) Hoisting winch with ropes sufficient for lifting items from approximate 10 meters below deck base.
3	<u>CONTROL</u>	ELECTRO-HYDRAULIC OPERATED
	-	
4	<u>SAFETY DEVICES</u>	The device shall be operated remotely with a remote control having cable of sufficient length for operation and alternative provision for manual operation shall be provided.
		Electrical / Mechanical hook stop (Lifting side) to be provided.
		Automatic fail-safe arrangement in case of supply failure or overload with break holding capacity to excess of max. S.W.L to be provided.
		Emergency manual lowering and slewing facility to be provided
	-	All manual controls shall be fitted at standard operating height at man's reach from main deck.
	-	
5	<u>NAMEPLATE</u>	THE NAMEPLATES SHALL BE INDICATED IN ENGLISH
	-	NAME Plates of the prominently display the following information:- - Manufacturer's Name - Manufacturer's Serial No. Type/Model: - Year of Manufacture. - Electrical parameters as applicable - Weight of equipment
	OPERATION NAMEPLATES AND CAUTION NAMEPLATE	SHALL BE INSTALLED AT APPROPRIATE LOCATIONS.
	TOTAL WEIGHT AND TILTING MOMENT ON THE FOUNDATION POST FLANGE.	TO BE INDICATED
6	PERFORMANCE	ELEC-HYDRAULIC MARINE CRANE SHALL HAVE A LEVEL LUFFING AND SHALL SIMULTANEOUSLY PERFORM OPERATIONS WITH REDUCING SPEED.
7	HYDRAULIC CONTROL DEVICES	TO BE SPECIFIED
8	WIRE ROPE AND RIGGING BLOCK	TO BE SPECIFIED
9	ELECTRIC DEVICES	THE MOTOR SHALL BE DESIGNED ESPECIALLY FOR EXACT FUNCTION AND LONG DURABILITY
10	POWER SUPPLY FROM THE SHIP	440V AC, 60Hz, 3PHASES

11	MOTOR	MARINE 3-PHASE INDUCTION MOTOR WITH TOTALLY ENCLOSED FAN COOLED TYPE. MOTOR TO BE SPECIAL SQUIRREL CAGE TYPE. INSULATION CLASS SHALL BE "F" RATING - CONTINUOUS
12	CABLING WORK	CABLING WORK IN THE CRANE SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CLASSIFICATION SOCIETY. MARINE CABLES SHALL BE USED. RATING OF INCOMING CABLES TO BE LAID BY YARD SHALL BE SPECIFIED BY THE CRANE SUPPLIER IN THE OFFER
13	SPARE PARTS AND TOOLS	SPARES AND NECESSARY TOOLS ARE TO BE COATED WITH AN ANTICORROSIVE PAINT AND TO BE KEPT IN A STEEL PLATE BOX WITH A LOCK. ALL THE SPARES AND NECESSARY TOOLS ARE TO BE PROVIDED WITH NAME CARDS.
		THE STANDARD SPARE PART LIST TO SUBMITTED WITH PRICE
14	TEST RECORDS AND CERTIFICATES TO BE SUBMITTED	CLASS APPROVAL CERTIFICATE FROM IACS MANUFACTURE QUALITY AND LIFTING GEAR CERTIFICATE. CERTIFICATE REQUIRED BY DOCK LABOUR BOARD FOR LIFTING APPLIANCES
15	FACTOR OF SAFETY CRANES	STATIC: 1.25 SWL DYNAMIC: 1.1 SWL
16	PAINTING	THE CRANE TO BE PAINTED WITH PAINTING SCHEME SUITABLE FOR MARINE ENVIRONMENT WITH A FINISH COLOUR OF WHITE.
17	CRANE HEIGHT INCL OF PEDESTAL ADAPTOR (FROM FLANGE TO TOP END)	MAX UPTO 4.25 M (PREFERED)
18	LIFTING HEIGHT	25 M (PREFERRED)
19	THE FOLLOWING DETAILS ARE TO BE PROVIDED	WEIGHT BREAK-UP WITH POSITION OF CENTER OF GRAVITY (CG OF CRANE TO BE INDICATED IN BOTH STOWAGE AND OPERATING CONDITION) ELECTRIC DIAGRAM GENERAL ARRANGEMENT PLAN (I.E., PLAN, FRONT ELEVATION, SIDE ELEVATION OF THE CRANE INDICATING DIMENSIONS.)
20	FAT	BY IRS/ IACS MEMBER AT MANUFACTURER PREMISES
		ALL SAFETY CUT OUTS SUCH AS OVERLOAD, HOISTING, OVER CURRENT ETC. AND ALL CONTROLS AS PER CLASS SHALL BE PROVIDED SAME SHALL BE SHOWN TO CLASS/OWNER DURING FACTORY ACCEPTANCE TEST.

21	DOCUMENTATION IN HARD AND SOFT COPIES (THREE SETS TO BE PROVIDED):	<ul style="list-style-type: none"> ➤ FINISHED PLANS/DRAWINGS. ➤ SUPPLIERS AND MAKERS DRAWINGS FOR MACHINERY. ➤ INSTRUCTION BOOKS. ➤ MAINTENANCE MANUAL. ➤ OPERATING MANUALS. ➤ INSTALLATION MANUAL/HANDBOOK. ➤ INTER-UNIT CABLE DIAGRAMS. ➤ SPARE PARTS LIST. ➤ PHYSICAL DIMENSIONAL DRAWINGS. ➤ FAT REPORT. ➤ COMMISSIONING REPORT INCLUDING ONBOARD LOAD TEST. ➤ LOAD TEST CERTIFICATES. ➤ CLASS CERTIFICATES.
22	ONBOARD SPARES	THE ONBOARD SPARES MEETING CLASSIFICATION RULE REQUIREMENTS AND AS RECOMMENDED BY OEMS FOR ONBOARD MAINTENANCE ROUTINES AND POSSIBLE REPAIR REQUIREMENTS FOR TWO YEARS SHALL ALSO BE PART OF SUPPLY. AN ITEMIZED LIST OF OBS INDICATING COST OF EACH SPARE, TO BE FURNISHED ALONG WITH THE QUOTATION FOR MAIN EQUIPMENT.
23	PRODUCT SUPPORT	<p>THE SUPPLIER SHOULD CONFIRM PRODUCT SUPPORT AFTER DELIVERY OF THE EQUIPMENT. IN ANY CASE, THE EQUIPMENT IS LIKELY TO BECOME OBSOLETE, THE SUPPLIER SHOULD COMMUNICATE TO GIVE A THREE YEAR NOTICE TO ACCESS THE REQUIREMENT OF LIFETIME BUY OF SPARES. THE SUPPLIER SHOULD ALSO ENSURE SUPPLY OF THESE ITEMS PRIOR TO DISCONTINUATION OF PRODUCTION FACILITIES. OEM SHOULD BE ABLE TO SUPPORT FOR SPARES AND SERVICE FOR MINIMUM 20 YEARS FROM THE DATE OF COMMISSIONING.</p> <p>THE CRANE SHALL BE OPERATIONAL THROUGHOUT THE VESSEL'S LIFE TIME</p>
24	INSTALLATION & COMMISSIONING	THE OEM SHALL PROVIDE INSTALLATION SUPERVISION AND COMMISSION THE CRANE. SUITABLE SERVICE ENGINEERS SHALL BE DEPUTED TO THE YARD CMSRU, MUMBAI FOR INSTALLATION AND COMMISSIONING OF THE CRANE.
25	WARRANTY PERIOD	THE MANUFACTURER SHALL PROVIDE GUARANTEE AGAINST ALL DEFECTS OF DESIGN, WORKMANSHIP AND MATERIAL AND SATISFACTORY OPERATION OF INSTALLED EQUIPMENT FOR A PERIOD OF 12 MONTHS FROM COMMISSIONING AND FINAL ACCEPTANCE OF CRANE AFTER SUCCESSFUL INSTALLATION AND COMMISSIONING & TRIALS ONBOARD.
26	COST OF CRANE	TO INDICATE IN "INR" .
27	COST OF ONBOARD SPARES FOR 2 YEARS	TO INDICATE IN "INR" .
28	PLACE OF SUPPLY	CMSRU STORES
29	LEAD TIME FOR SUPPLY	20 WEEKS FROM ISSUE OF PO

SCOPE OF WORK FOR PREPARATION OF DRAWINGS AND DOCUMENTS FOR INSTALLATION
AND COMMISSIONING OF 10T CRANE

1. Project Requirements

- a) Crane to be installed on vessel on top of Mud / Brine tank No. 52 (Stbd side) on Frame No. 25-32.
- b) The renewal of the deck plating and under deck stiffening for the crane installation shall be as per class approved drawings and shall be offered to class and SCI for onboard inspection. Any modifications for carrying out the under deck stiffening shall be carried out without affecting the existing systems onboard.
- c) The Steel for deck strengthening shall be IRS Grade A or equivalent. The procurement of steel fabrication, erection, welding and testing and all jobs related to deck strengthening shall be undertaken by the Contractor. After the structural modifications the Air test, vacuum test, UT, PT as necessary for tanks/Crane column shall be carried out and shown to Class/ SCI. Strength test of tanks after modifications shall be carried out, if required by Class. Surface preparation and painting of new structural members and damaged paint areas shall be carried out in accordance with approved Paint scheme.
- d) Boom rest will be installed on the Fwd side of the vessel in the same line of foundation and shall be clear of any obstacle or rescue zone on the main deck.
- e) The power connection shall be taken from both Shaft Generator bus bar and DG bus bar for redundancy. Informatively, the breaker of about 200 amps is available on bus bar of the vessel as spare from existing power distribution system.
- f) The arrangement of Power supply to the Crane from MSB boards shall be undertaken. All materials related to interfacing of crane to MSB e.g cable, junction box, circuit breakers, connections etc shall be supplied and carried out by the Contractor. Cable shall be XLPE, copper cable, annealed and tinned, with stranded copper conductor. The cable size shall be suitable for the motor KW power rating. The electrical drawings as required shall be prepared in coordination with SCI. Electrical items should be approved type for Marine Use.
- g) Installation and supply of power cable on Main deck shall be done by the Contractor. The approximate length of the cable from the location of crane and the MSB is about 50 metres. The junction box and emergency stops provided on Main deck shall be suitable for installed power rating of crane. The cable penetration on the deck/bulkhead shall be sealed with Multi cable transit (MCT). The cable laying on Main deck shall be done in cable trays of GI sheet material and cables shall be properly secured and strapped with the cable tray. All Hydraulic Lines and valves are to be marked /labelled for identification as per Drawing. Further details (Length & End Connectors) of all hydraulic pipes whether Flexible or Steel are to be mentioned in the Spare part manual.
- h) The stability of the vessel due to this modification need to be assessed and approved by class in all loading conditions. The preparation of stability booklets (Intact and Damage stability) with respect to the modification shall be prepared by the Contractor and shall be approved by class.
- i) The contractor shall procure the crane as per the technical specification

2. Scope of work

- a) Firm shall engage Indian Register of Shipping as Classification Society and obtain approvals for all drawings, modifications and all other activities pertaining to the scope from IRS. All required fees for obtaining approvals from IRS shall be included in the offer.
- b) Preparation and IRS approval of outfit and structural drawings (crane foundation and installation drawings, cable routing layout, hydraulic piping layout, bulkhead/deck penetrations etc.) for installation of crane.
- c) Deck strength analysis in way of Crane foundation, boom rest and preparation & IRS approval of all other structural drawings (under deck stiffening drawings, crane boom rest area drawings etc.)
- d) Preparation and IRS approval of all electrical drawings for interfacing of crane with the MSB/Power Distribution Boards/Control Panels
- e) All Stability assessment, preparation/modification of stability booklets (Intact and Damage stability) and IRS approval of the documents
- f) Preparation and approval of amendment of GA drawing of the vessel
- g) Preparation and approval of test and trail documents
- h) All drawings with respect to modification of crane such as GA, under deck stiffening drawing, electrical interfacing and stability assessment at all loading conditions shall be submitted to SCI for scrutiny and approval and final version of drawings shall be submitted to IRS for approval
- i) Provide technical details of all modifications to be done on the switchboards for arrangement of power/control supply to crane from MSB and all other power distribution and control panels. Any modifications in the existing system should be reduced to the minimum and if modifications arise, to be approved by SCI and IRS.
- j) Amendment of all electrical drawings such as single line diagram, MSB power distribution drawing and preparation of electrical load analysis. All drawings and documents shall be approved by SCI and IRS.
- k) Provide detailed bill of material and procurement of all material for all the installation work i.e., materials like steel plates, pipe lines, electrical items, fasteners, paints etc., for undertaking the successful installation of the Crane. Technical specifications shall also be mentioned.
- l) Site visit onboard ship shall be undertaken by the firm for any assessment of the job scope. CMSRU shall communicate the availability of ships at any of MbPT berths or at anchorage. Firm shall engage competent personnel for all the works.
- m) Note that this offer is for complete design assistance for installation of the crane onboard ship. The contractor shall provide complete support for successful completion of the installation of crane. Any in way jobs connected with this work shall be undertaken by the firm with no additional cost to CSL.

Contractor's seal & signature

PRICE BID								
MP1/10T crane/SCI Mukta/CMSRU								
Encl.3								
sl No	D/L Reference	Material/Service Description	stage	UoM	Qty	Unit rate	Total rate (Qty* Unit rate)	GST(%)
1	D20005.22	PORT & STBD WINDLASS GEAR WHEEL/SPOKES TO BE GRIT BLASTED & PAINTED	1	SET	2	xx	xx	xx
2	D20005.23	PORT & STBD WINDLASS BRAKE LINING TO BE RENEWED WITH ASBESTOS FREE MATERIAL, ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.	1	SET	1	xx	xx	xx
3	D20005.24	PORT & STBD WINDLASS's GYPSY'S TEETHS WORN OUT, SAME TO BE REWELDED WITH HIGH QUALITY ELECTRODES AND TO BE GRINDED TO PROPOER SHAPE.	1	SET	1	xx	xx	xx
4	D20005.25	ONE NO GYPSY OF THE WINDLASS TO BE REMOVED, AND TO BE RENEWED WITH NEW SHIP SUPPLIED GYPSY.	1	SET	1	xx	xx	xx
5	D20021.1	WHEELHOUSE WINDOW WIPERS (06 NO) RUBBER DAMAGED TO BE RENEWED	1	NOS.	6	xx	xx	xx
6	D20021.2	NAVIGATION SIDE LIGHT BASE PLATE CORRODED. SAME TO RENEWED AND COAT WITH BLACK MAT PAINT. MATERIAL MS 8 MM PLATE	1	SQ MTR	6	xx	xx	xx
7	D20021.3	W/HOUSE WINDOW WIPER FLUSHING NOT WORKING TO BE REPAIRED.	1	NOS	2	xx	xx	xx
8	D20021.4	MAIN MAST CHRSTMAS TREE SUPPORTIN BAR & PLATFORM TO BE REPAIRED.	1	LS	10	xx	xx	xx
9	D20021.5	ALL CLINOMETERES TO CHECK AND ADJUST.	1	LS	1	xx	xx	xx
10	D20021.6	FWD SEARCH LIGHT BOTH SUPPORT BRACKETS BROKEN, TO BE RENEWED	1	NOS	1	xx	xx	xx
11	D20021.8	MONKEY ISLAND RAM LIGHT (NAV.LT) POST STBD SIDE BROKEN TO BE REPAIRED.	1	NOS	1	xx	xx	xx
13	D20023.1	SUPERSTRUCTURE 5 CABINS PORTHOLES ARE LEAKING SAME TO ARREST BY CHANGING PACKING AND WITH SEALING COMPOUND. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR.	1	SET	10	xx	xx	xx
14	D20024.1	RUBBER PACKING OF FOLLOWING TO BE RENEWED : WEATHER TIGHT DOOR: - MONKEY ISLAND FUNNEL DOOR 02 NOS, BRIDGE DK 02 NOS, C DK 03 NOS, B DK 02 NOS, A DK 03 NOS, MAIN DK 11 NOS (TOTAL 23 NOS.) 05 NOS. BOOBY HATCHES, VENTS AND FLAPS .	1	MTR	150	xx	xx	xx
15	D20025.1	RENEWAL OF FW TAPS (06 NOS), FLUSHES (04 NOS), SHOWER HEAD (06 NOS), MIXER (04 NOS), FAUCETS (06 NOS).	1	NOS	26	xx	xx	xx
16	D20025.2	RENEWAL OF REXIN COVERS AT VARIOUS PLACES.	1	M2	25	xx	xx	xx
17	D20025.3	CABIN TOILET SEAT COVER BROKEN.	1	NOS	6	xx	xx	xx
18	D20025.4	TOILET TILES TO BE RENEWED AND EPOXY SEALANT TO BE PUT PRIOR FITMENT OF TILES.	1	M2	30	xx	xx	xx
19	D20025.5	DECONTAMINATION AREA BOTH SIDE EYE STEEL FOLLOWING TO BE RENEWED. 1. WASH BASIN, 2. FOOT PADEL, 3. SHOWER HEAD, 4. BALL VALVE, 5. SPRING (SS MARERIAL). SS BOLTS TO BE USED AS REQUIRED. ALL THE 4 EYE WASH ARRANGEMENT TO BE TESTED AND SATISFACTORY OPERATION TO BE SHOWN.	1	NOS	4	xx	xx	xx
20	D20025.6	RECOVERY ROOM VACUUM TOILETS FLUSH SYSTEM 03 NO. NOT WORKING. TO BE REPAIRED. SPARES TO BE SUPPLIED BY CONTRACTOR.	1	NOS	3	xx	xx	xx
21	D20025.7	WATER COOLERS INSIDE GALLEY TO BE FITTED (SHIP SUPPLY).	1	NOS	1	xx	xx	xx
22	D20025.8	WEATHER TIGHT DOOR LOCK TO BE RENEWED.	1	NOS.	3	xx	xx	xx
23	D20025.9	GALLEY DRY PROVISION STORE DOOR INSIDE LOCKING ARRANGEMENT TO BE RENEWAL.	1	NOS.	1	xx	xx	xx
24	D20025.10	REMOVAL AND REFIT OF PANELLING AND INSULATION IN ACCOMODATION AREA FOR VARIOUS JOBS.	1	M2	10	xx	xx	xx
25	D20026.1	WATER LEAKING THROUGH TOWING PIN'S AND SHARK JAW, TO MAKE WATER TIGHTNESS. AND TO MAKE ARRANGEMENT FOR FITTING OF TOWING PIN AND SHARK JAW COVER.	1	LS	2	xx	xx	xx
26	D20026.2	02 NOS LIFE BUOYA S.I LIGHT BRACKET BROKEN,NEW BRACKET TO BE FITTED.	1	NOS.	8	xx	xx	xx
27	D20026.3	RESCUE ZONE NET ASSEMBLY BROCKEN/ DEFECTIVE TO BE REPAIRED	1	NOS.	1	xx	xx	xx
28	D20026.4	DECK LIGHT BASE, STAND, WIRE HOLDING FLAT BAR TO BE RENEWED.	1	NOS.	3	xx	xx	xx
29	D20026.5	LIFEJACKET BOXES ON BOAT DECK HINGES BROKEN	1	NOS	1	xx	xx	xx

30	D20026.6	LIFE BUOY STAND ON MAIN DECK CORRODED, TO BE RENEWED AT STBD QTR	1	NOS	2	xx	xx	xx
31	D20026.7	BA COMPRESSOR BOX DOOR HINGES BROKEN	1	NOS	1	xx	xx	xx
32	D20026.8	CARGO MANFOLDS VALVES OF CEMENT, BARYTE, BO, FO & FW/DW TO BE OVERHAULED	1	NOS	8	xx	xx	xx
33	D20026.10	LINE LEADING TO SAVE ALL TANK FROM DRIP TRAY INSIDE TANK 58 HOLED. SAME TO BE RENEWED WITH SCH 40 X 150 NB PIPE. TWO FLANGES TO BE SPOOLED IN BETWEEN.	1	MTR	1	xx	xx	xx
34	D20026.11	COMPANION LADDER HAND RAILS WASTED. TO BE RENEWED. (1.5 INCH)	1	MTR	10	xx	xx	xx
35	D20026.12	PIPE CLAMPS TO BE RENEWED (WITH RUBBER PACKING) INSIDE VARIOUS TANKS AND ON DECK. (200 MM - 24 NOS, 150MM - 24 NOS, 100 MM- 24 NOS, 75 MM - 24 NOS) ** 30 % DELETED FROM QTY OF 96.	1	NOS	67	xx	xx	xx
36	D20026.13	AH GYPSY ON MAIN DECK FROZEN, SAME TO BE MADE FREE AND LUBRICATED.	1	NOS	2	xx	xx	xx
37	D20027.1	14 NO TYRE FENDERS AND 6 NO. CIRCULAR FENDERS TO REMOVE TO FACILITATE BLASTING AND PAINTING OF SHIP SIDE. ALL FENDERS ARE TO BE FITTED BACK AFTER STEEL RENEWAL AND BLASTING PAINTING	1	NOS.	14	xx	xx	xx
38	D20027.2	TYRE FENDER CHAINS TO RENEW -GI CHAIN (TO BE SUPPLIED BY CONTRACTOR)	1	MTR	120	xx	xx	xx
39	D20027.3	GI SHACKLES TO RENEW & TAG WELDED (TO BE SUPPLIED BY CONTRACTOR)	1	NOS.	120	xx	xx	xx
40	D20027.4	CONSIDER RENEWAL OF 20 NOS THINNED DOWN/CORRODED EYE PADS AND 20 NOS THINNED DOWN/BENT/CORRODED SHOE PLATES(10MM PLATE TO BE USED). DIMENSION OF NEW EYE PADS AND LENGTH OF SHOE PLATES TO BE AS PER EXISTING ITEMS. ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR.(20 Eye pads + 20 Shoe plates)	1	NOS.	40	xx	xx	xx
41	D20027.5	SUPPLY AND FITTING OF USED AIRCRAFT TYRE FENDERS, CLASS B USED AIRCRAFT TYRE FENDER APPROX. 900-1000 MM OD, 2 LENGTH 2.5 M/L OF 3/4" GALV CHAIN, 4 PICESES 3/4" GALV. SCREW PIN D-SHACKLES ONLY. 4 SETS OF SUPPLIER DESIGNED HOLE SHIELDS, MATERIAL : MILD STEEL, (SIUTABLE 3/4" GALVC. CHAIN TO RUN THROUGH). ALL MATERIAL TO BE SUPPLIED BY CONTRACTOR.	1	NOS.	4	xx	xx	xx
42	D20027.6	PERMANENT VERTICAL RUBBER FENDERS ON BOTH SIDE ARE DAMAGED. TO BE FITTED NEW FENDERS. SEMI-CIRCULAR D-SHAPED FENDERS. LENGTH 3 MTRS EACH , SIZE - 3.0 M X 0.4M X 200MM, FENDER SHIP SUPPLY. FENDER HOLDING BRACKETS TO BE RENEWED (03 MTR). ALL FENDERS WIDTH TO BE CUT AS PER BRACKET WIDTH.	1	NOS.	16	xx	xx	xx
43	D20027.7	CIRCULAR RUBBER FENDER ON BOTH QTR BROKEN TO BE RENEWED. FENDER SHIP SUPPLY. CHAIN, SHACKLES AND EYE PADS TO BE SUPPLIED BY CONTRACTOR.	1	NOS.	6	xx	xx	xx
44	D20031.1	ANNUAL INSPECTION OF SCBA & PRESSURE TEST OF SCBA BOTTLES - ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	20	xx	xx	xx
45	D20031.2	ANNUAL INSPECTION OF EEBD & PRESSURE TEST OF EEBD- ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	27	xx	xx	xx
46	D20031.3	ANNUAL INSPECTION OF PERSONNEL TRANSFER BASKET & LOAD TEST OF BASKET- ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1	xx	xx	xx
47	D20031.4	LOAD TEST OF GANG WAY - ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1	xx	xx	xx
48	D20031.5	LOAD TEST OF CRANE - ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1	xx	xx	xx
49	D20031.6	CARGO HOSE PRESSURE TEST.& ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	5	xx	xx	xx
50	D20031.7	HP TEST OF HOSPITAL OXYGEN CYLINDER- ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1	xx	xx	xx
51	D20031.8	TO CARRY OUT AIR QUALITY ANALYSIS OF BEATHING AIR COMPRESSOR AND ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1	xx	xx	xx
52	D20031.9	TO CARRY OUT FOAM ANALYSIS TEST AND ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1	xx	xx	xx
53	D20031.10	TO CARRY OUT CALIBRATION OF ALCOHOL METER AND ISSUE A CERTIFICATE FOR THE SAME FROM COMPETENT AUTHORITY.	1	NOS.	1	xx	xx	xx
54	D20031.11	FIRE HOSE BOXES SIZE 610X460X300 MM, TO BE PROCURE AND SUPPLY AND FIT	1	NOS	5	xx	xx	xx
55	D20031.12	ALL PORTABLE CO2 EXTINGUISHERS HP TESTING TO BE CARRIED OUT-ISSUE CERTIFICATE FOR THE SAME	1	NOS	24	xx	xx	xx
56	D20031.13	ALL PORTABLE DCP EXTINGUISHERS HP TESTING TO BE CARRIED OUT-ISSUE CERTIFICATE FOR THE SAME	1	NOS.	20	xx	xx	xx
57	D20032.1	DISCHARGE PIPING AND NOZZLES (18 NOS) TO BE TESTED FOR ANY BLOCKAGE, DISCH. PIPING SHOULD BE ISOLATED FROM THE SYSTEM AND AIR BLOW THROUGH TO BE CARRIED OUT. MAIN LINE &PILOT LINE TO BE PRESSURE TESTED. ONE MAIN CO2 DISCHARGE V/V/S TO BE INSPECTED & TWO CO2 MANIFOLD RELIEF /SAFETY VALVE TO BE TESTED TO LIFT AT 180 KG/CM2	1	LS	1	xx	xx	xx
58	D20032.2	15 NOS. OF CO2 CYLINDER (45KGS) AND 2 NOS. OF PILOT CYLINDER (2.7 KGS) WEIGHMENT TO BE CARRIED OUT.	1	LS	1	xx	xx	xx

59	D20032.3	MAIN CO2 CYLINDER AND PILOT CYLINDER TO BE PRESSURE TESTED. NO OF CYLINDER AS PER 10 YEARLY MAINTENANCE GUIDELINE (MSC.I/Circ.1318 DATED 11 JUNE 2009)	1	LS	1	xx	xx	xx
60	D20032.4	FLEXIBLE HOSE TO BE PROCURE ,SUPPLY AND RENEW , MAKE- ALFAGOMMA FRANCE, SIZE : 7/8"X3/4"X18" LONG = 14 NOS, SIZE : 7/8"X3/4"X750MM LONG = 04 NOS,	1	LS	1	xx	xx	xx
61	D20032.5	VISUAL AND AUDIBLE ALARM TO BE CHECKED. BLOWER AND OIL PUMP TRIP ON ACTIVATION OF CO2 ALARM TO BE CHECKED FOR PROPER WORK. ON COMPLETION OF WORK, CO2 SYSTEM TO BE KEPT IN READINESS	1	LS	1	xx	xx	xx
62	D20032.6	CO2 FIXED FIRE FIGHTING INSTALATION FOR PAINT LOCKER- 10 YEARLY ROUTINE TO BE CARRIED OUT	1	LS	1	xx	xx	xx
63	D20032.7	CO2 FIXED FIRE FIGHTING INSTALATION FOR GALLEY- 10 YEARLY ROUTINE TO BE CARRIED OUT	1	LS	1	xx	xx	xx
		THE FOLLOWING PUMPS TO BE OVERHAULED . PUMP BASES AND FOUNDATION TO INSPECT . PUMP PARTS E.G. WEAR RINGS, BUSHES, AND BALL BEARINGS TO INSPECT AND RENEW AS REQUIRED . PUMP TO BE TRIED OUT FOR SATISFACTORY OPERATION. BEARINGS AND CONSUMABLES SUCH AS WEAR RINGS & BUSHES TO BE SUPPLIED BY CONTRACTOR.	1					
64	E20009.1	SYSTEM 1 AND 2 SEA WATER PUMP FOR PME &SME , ALLWEILLER NB80-160W3 .120.5/60M3/H@25.2/6.27M HEAD	1	NOS	2	xx	xx	xx
65	E20009.2	SLUDGE PUMP AND BILGE PUMP TO BE OVERHAULED- MAKE: ALLWEILER AS, NORWAY, TYPE- AEB 1L0101-1E, 011P01144PGOK,CAP-5.1MCUB/HR,DIFF PR -2BAR, POWER-0.9KW.	1	NOS	2	xx	xx	xx
66	E20009.3	AHT COOLING S.W P/P #1 & 2 TO BE OVERHAULED, ALLWEILLER NB 050-125/01/137 U3, 60 M3@30M HEAD	1	NOS	1	xx	xx	xx
67	E20009.5	EMCY FIRE P/P ALLWEILLER 35CUM/HR@60 MTR HEAD,6BAR PRESSURE	1	NOS	1	xx	xx	xx
68	E20009.6	GENERAL SERVICE AND FIRE AND GS PUMP, ALLWEILER CENTRIFUGAL P/P, 45M3/HR@60M HEAD	1	NOS	2	xx	xx	xx
69	E20009.6.1	SYSTEM 3 FRESH WATER PUMP TO BE OVERHAULED. ALLWEILLER AG, TYPE:-NB125-250W3, CAPACITY:- 250.4/125 M3/Hr @ 30.1/7.44 M HEAD, SPEED:- 1770/880 RPM	1	NOS	1	xx	xx	xx
70	E20009.6.2	F.O PURIFIER GEAR PUMP TO BE OVERHAULED. MAKE:- TUSHACO, MODEL:- T3ST 32/38, CAPACITY:- 21 M3/Hr, SPEED :-2920	1	NOS	1	xx	xx	xx
71	E20009.6.3	STEERING GEAR BILGE PUMP TO BE OVERHAULED. MAKE:- ALLWEILLER AG, TYPE:- ECCENTRIC SCREW PUMP, SERIAL NO:-9052481, CAPACITY:- 5 M3/Hr, SPEED:- 752 RPM, HEAD:- 20 M.	1	NOS	1	xx	xx	xx
72	E20009.6.4	ENGINE ROOM BILGE PUMP TO BE OVERHAULED.	1	NOS	1	xx	xx	xx
73	E20009.6.5	F.O STAND BY (MDO) PUMP FOR BOTH ME TO BE OVERHAULED. MAKE:-LEISTRITZ, TYPE:- L3NG-032/064-AFOKII-G, CAPACITY 38.7 L/MIN, SPEED:-1750 RPM.	1	NOS	1	xx	xx	xx
74	E20009.6.6	PORT AND STBD STAND BY L.O PUMP TO BE OVERHAULED. MAKE:- LESTRIZ, TYPE:- L3NG-90/152-ASOJII-G, CAPACITY:- 950 L/MIN.	1	NOS	2	xx	xx	xx
75	E20009.6.7	PORT AND STBD STAND BY R/G PUMP TO BE OVERHAULED.	1	NOS	2	xx	xx	xx
76	E20009.6.12	F.O TANSFER PUMP TO BE OVERHAULED. MAKE:- LEISTRITZ, TYPE:- L3NG-032/064-AFOKII-G, CAPACITY:- 38.7 L/ MIN, SPEED:- 1750	1	NOS	1	xx	xx	xx
77	E20009.6.13	DRILL AND BALLAST WATER PUMP TO BE OVERHAULED. MAKE:- ALLWEILER AS, TYPE:- TWIN SCREW OIL PUMP, CAPACITY:- 150 M3/ Hr, SPEED :-3600 RPM.	1	NOS	1	xx	xx	xx
78	E20009.6.14	F.O OIL CARGO PUMP TO BE OVERHAULED. MAKE:- ALLWEILER AS, TYPE:- TWIN SCREW OIL PUMP, CAPACITY:- 110M3/Hr, SPEED:- 3500 RPM.	1	NOS	1	xx	xx	xx
79	E20009.6.15	IOPP BIGE PUMP TO BE OVERHAULED. PUMP CAPACITY:- 3 M3/Hr, MOTOR RATING:1.1 KW, 440 VOLT, 60 HZ.	1	NOS	1	xx	xx	xx
80	E20009.7	SYSTEM 3 F.W AND S.W BACK UP P/P ,NB125-250/U3.1D-W18- IEC 180.CAPACITY:200M^3/HRS, HEAD - 30M,RPM-1750.	1	NOS	3	xx	xx	xx
		FOLLOWING COOLERS/ CONDENSERS TO CLEAN & PRESSURE TEST(CINTRACTOR TO USE BRUSH AND CHEMICAL). THE NEW GASKETS/ O'RINGS TO USE (CONTRACTOR SUPPLY) AND SATISFACTORY TRIAL TO BE GIVEN:-	1					
81	E20010.2	BOTH MAIN ENGINES L.O COOLERS TO BE CHEMICALLY CLEANED & PR TESTED, CAP- 71.1SQ.MTR (PLATE TYPE) EACH.	1	SETS	2	xx	xx	xx
82	E20010.3	BOTH MAIN ENGINES LT COOLER, CAP- 65.7 SQ.M (PLATE TYPE) EACH.	1	SETS	2	xx	xx	xx
83	E20010.4	BOTH C.P.P L.O COOLER- CAP- 2.5 SQ.M (TUBE AND SHELL TYPE) EACH	1	SETS	2	xx	xx	xx
84	E20010.5	SYS 1&2 HT COOLER (PLATE TYPE)CLEANING	1	SETS	2	xx	xx	xx
85	E20010.6	SYSTEM-3 CENTERAL COOLER (PLATE TYPE) TO BE CLEANED.	1	SETS	1	xx	xx	xx
86	E20010.7	ECR A/C AND WHEEL HOUSE A/C COOLERS (SHELL &TUBE) TO BE CLEANED	1	SETS	2	xx	xx	xx
87	E20010.8	AHT HYD L.O COOLER TO BE CLEANED	1	SETS	1	xx	xx	xx
88	E20015.10	PROCURE AND SUPPLY NEW BUTTERFLY VALVE. LUG TYPE, SIZE :200 NB, CAST IRON BODY, STAINLESS STEEL STEM AND DISC, REPLACEABLE NBR RUBBER SEAT, 10 BAR, WORM GEAR OPERATED MOUNTING BETWEEN JIS 5K/10K & DIN PN 16 FLANGES NOTE: ONLY 2 NOS.	1	NOS	2	xx	xx	xx
89	E20015.11	PROCURE AND SUPPLY NEW BUTTERFLY VALVE LUG TYPE LEVER OPERATED, SIZE : 150 NB, F6421 JIS 10K CAST IRON BODY, STAINLESS STEEL STEM, ALU-BRONZE DISC, NBR RUBBER SEAT, LUG TYPE,	1	NOS	2	xx	xx	xx

90	E20015.12	PROCURE AND SUPPLY NEW BUTTERFLY VALVE LUG TYPE LEVER OPERATED, SIZE : 125 NB, F6421 JIS 10K CAST IRON BODY, STAINLESS STEEL STEM, ALU-BRONZE DISC, NBR RUBBER SEAT, LUG TYPE,	1	NOS	2	xx	xx	xx
91	E20015.13	PROCURE AND SUPPLY NEW BUTTERFLY VALVE LUG TYPE LEVER OPERATED, SIZE : 100 NB, F6421 JIS 10K CAST IRON BODY, STAINLESS STEEL STEM, ALU-BRONZE DISC, NBR RUBBER SEAT, LUG TYPE,	1	NOS	2	xx	xx	xx
92	E20022.3	BILGE SUCTION VALVE'S LID MISSING, SDNR VALVE DN100 – 01 NO. FLANGE TYPE. FLANGE TO FLANGE – 378 MM, FOR PIPE OD- 110MM. NEW VALVE TO BE PROCURE AND SUPPLY	1	NOS	1	xx	xx	xx
93	E20022.4	AUX ENGINE LT WATER INLET AND OUT VALVE, GLOBE VALVE, SIZE: DN 60 TO BE PROCURED AND SUPPLY	1	NOS	4	xx	xx	xx
94		SUPPLY OF 10T ELECTRO-HYDRAULIC CRANE AS PER ATTACHED TECHNICAL SPECIFICATION.	2	LS	1	xx	xx	xx
95		PACKING, FORWARDING AND TRANSPORTATION CHARGES	2	LS	1	xx	xx	xx
96		PREPARATION OF ALL DRAWINGS AND DOCUMENTS AS PER SCOPE OF WORK INCLUDING ALL APPROVALS FROM IRS	2	LS	1	xx	xx	xx
97		INSTALLATION OF 10T ELECTRO-HYDRAULIC CRANE ONBOARD SHIP WITH ALL NECESSARY MODIFICATION WORKS. (PROCUREMENT OF ALL MATERIALS IN THE SCOPE OF CONTRACTOR).	2	LS	1	xx	xx	xx
98		COMMISSIONING OF CRANE INCLUDING ALL TRIALS AND APPROVALS BY COMPETENT AUTHORITY	2	LS	1	xx	xx	xx
TOTAL AMOUNT							XX	XX
TOTAL AMOUNT INCLUSIVE OF GST							XX	

Contractor's Seal & Signature

Annexure 4
Rules for engaging contractor's workmen in CSL-MSRU

- I) The following labour statutory compliance measures should be followed by contractors working in CSL Mumbai Ship Repair Unit
 1. If the contractor is engaging 10 or above contract workmen, their firm must have independent establishment registration under EPF.
 2. If the contractor is engaging 10 or above contract workmen, their firm must have independent establishment registration under ESI.
 3. If the contractor is engaging less than 10 contract workmen and they are exempted under ESI/EPF, their workmen should be covered under Employee Compensation policy.
 4. The wage payment for workers should be disbursed through bank payment only and contractor have to submit monthly Chellan for ESI Remittance ,EPF Remittance and bank statement of wage disbursement along with their monthly bills.
 5. If the contractor is engaging 20 or above contract workmen, they should take the Labour Licence under Contract Labour Contract Act.
- II) The contractor is solely responsible for complying ESI & EPF rules for contract workmen engaged by them for the work.
- III) It is mandatory to submit police clearance from Mumbai Police station to issue gate entry pass. Hence all the workmen belong to other sates shall have to take police clearance from their respective home station to submit application form for obtaining police clearance from Mumbai Police Station.
- IV) No worker above 60 years shall be allowed to work in this contract.

SPECIFIC TERMS AND CONDITIONS

1. The job is turnkey in nature and the bidder is required to undertake all works as per Stage 1 and Stage 2.
2. Vendors/contractors need to quote all the SL no's of price bid as per encl#3, otherwise offer will be liable to rejected.
3. L1 bidder will be selected based on the lowest on total for the entire scope of work .Final selection of L1 bidder will be under CMSRU decision.
4. Supply of crane, design of the modifications on the vessel for installation of the crane along with IRS approval, procurement of all materials, site modifications, installation & commissioning of the crane with all associated trails and approvals is in the scope of the bidder.
5. **Evaluation criteria:**
 - a) Bidders have to quote for complete job scope and the technical specifications of the crane as per the tender shall be complied. Such offers shall only be considered for evaluation.
 - b) The following financial criteria shall be applicable:
 - Bidder shall have an average annual turnover of at least Rs 70 Lakhs for the preceding three financial years (viz 2017-18, 2018-19 & 2019-20)
 - Bidder shall have successfully undertaken ship repair / refit works (inclusive of repairs, installation of cranes, machineries etc) in the last 7 years preceding 31-10-2021 as per the following:
 - (i) Three similar works costing not less than Rs 0.92 Crore each
 - (ii) Two similar works costing not less than Rs 1.15 Crore each
 - (iii) One similar work costing not less than Rs 1.8 Crore
6. **Completion period:**
 - a) Stage 1 (SI No: 01 - 93) – 20 days from issue of LOI/PO
 - b) Stage 2 (SI No: 94 – 98) – Supply and installation of 10T electro hydraulic crane
 - Supply of Crane: - 20 weeks from issue of LOI/PO. Delivery of crane shall be at CMSRU Stores.
 - Submission of all drawings and documents with approvals – 25 days from issue of LOI/PO.
 - Procurement of all materials for installation and commissioning of crane – 40 days from issue of LOI/PO.
 - Installation and commissioning of crane including all associated surveys – 25 days from intimation from CSL Officer-in-charge of the work
7. **Terms of payment:** Payment shall be released as per the following stages:
 - a) 100% payment shall be released for Stage 1 upon completion of all works as per the Stage 1.
 - b) Stage 2 – Supply and installation of 10T electro hydraulic crane
 - 50% of the total value of Stage 2 shall be released on supply of the crane at CMSRU stores.
 - 30% of the total value of Stage 2 shall be released after successful completion of installation of the crane.
 - Balance 20% of the total value of Stage 2 shall be released upon successful completion of commissioning, trials and all related surveys of the crane.

8. Liquidated Damages:

- a) LD at the rate of 0.5 % of the contract value per week or part thereof subject to a maximum ceiling of 10 % of the contract value (excluding supply of crane), will be deducted from the bidder's bill, in the event of failure of the bidder to complete the work within the stipulated completion period or by the expiry of any extension period granted by CSL.
9. Firm has to ensure safety of their personnel during the entire period of work. In case of any accidents, CMSRU shall not be responsible for any loss to their workmen and personnel property. Bidder shall keep CMSRU indemnified in case of any loss/ accident/ injury/death during the execution of the work.
10. **Bank Guarantee:** The successful bidder shall agree for 10% of total order value (excluding taxes and duties) as Bank guarantee towards the Guarantee clause. The Bank Guarantee as above should be initially valid till 90 days after completion of supplies (within the validity of initial BG) to cover the guarantee period mutually agreed plus 90 days.
11. **Pre bid meeting:** Prep rebid meeting at CMSRU premises: 24/11/2021 & 11.00 hrs. Vendors can participate the meeting in order visit the site location of crane to be installed, clear the scope of work and other clarification any regarding the subjected tender. Transportation and Entry pass formalities will be vendor's responsibility.

Kindly contact following person for entry pass to Mumbai port trust

Shri. Niranjana Kumar (PO- CMSRU) Email niranjana.kumar@cochinshipyar.in – 9321510324.

Shri. Loganathan. M (DM- CMSRU) Email loganathan.m@cochinshipyar.in – 8129600937.

12. **Insurance:** Transit insurance while supply the material will be supplier's scope.
13. The bidder shall have to provide all the required tools, tackles, testing equipment, machinery, vehicles for transportation, loading, unloading etc for carrying out subject work within the quoted price
14. Dock entry permits for movement of man and material in and out of dock shall be arranged by bidder. Necessary recommendations for the dock entry permit will be issued by CMSRU.
15. All clearances and charges towards shipment of crane till CMSRU stores shall be undertaken by the bidder.
16. CMSRU safety procedures to be followed for entire period of work by bidder
17. The bidder shall get familiarize with exact scope and quantum of work before quoting for the same. Once offer received, it is deemed that the bidder has assessed the exact

quantum of work and accepted all terms and condition for the subject work. Work has to be carried out as per the direction of CMSRU officer- in-charge.

18. One (1) year standard warranty period after commissioning of the Crane shall be provided by the Bidder during which OEM has to rectify the defects arising during above period at any suitable berth/anchorage and by providing the required materials & labour with bidders cost. The required materials and labour to be arranged by the Bidder promptly to rectify the defects. Transportation of any equipment / parts if required to workshop for undertaking guarantee/repair to be arranged by bidder.
19. Firm to provide necessary valid certificates (wherever required)
20. Vendors shall submit a signed copy of the following as a token of acceptance of CSL terms / conditions with the technical offer of the crane, without which tender may be rejected by CSL:
 - a) Technical Specification of the crane
 - b) Scope of supply
 - c) Duly filled compliance matrix
 - d) Unpriced Price bid format clearly indicating quoted/not quoted against each job scope
21. All materials for installation of crane including materials required for structural modifications, cable laying and all other works related to installation and commissioning of the crane shall be arranged by the bidder.
22. All drawings and documentations of the offered crane shall be provided to CMSRU in advance.
23. Any modifications for carrying out the under-deck stiffening shall be carried out without affecting the existing systems onboard.
24. Ownership of materials, design, drawings and other things shall be transferred to CSL upon the date of issuance of certificate towards part completion or completion and acceptance of works. This shall include materials procured, fabricated structure, wood structure, design and drawings, manuals etc., for which payment is claimed by the firm against each stage.
25. The Steel for deck strengthening shall be IRS Grade A or equivalent. The procurement of steel, fabrication, erection, welding and testing and all jobs related to deck strengthening shall be done by the Bidder. After the structural modifications the Air test, vacuum test, UT, PT as necessary for tanks/Crane column shall be carried out by the Bidder and shown to Class/ Client.
26. Strength test of tanks after modifications shall be carried out by the Bidder, if required by Class within the quoted price. Surface preparation and painting of new structural members and damaged paint areas shall be carried out by the bidder in accordance with approved Paint scheme.
27. Crane boom rest shall be installed by the Bidder.
28. All items like cables, junction boxes, terminals, cable lugs, pipelines, coamings, MCT, sealing compounds etc., shall be supplied by the bidder within the quoted price. All electrical items should be approved type for marine use.
29. The cable laying on Main deck shall be done in cable trays of GI sheet material and cables shall be properly secured and strapped with the cable tray.
30. All Hydraulic Lines and valves are to be marked /labelled for identification as per Drawing.
31. The onboard tests and trials shall be offered to Class and Client for commissioning of the system as per approved trial procedures. Arrangement of IRS surveyor / statutory bodies for surveys pertaining to installation, commissioning and certification of the crane shall be arranged by the bidder.

32. Load test weights for testing of crane shall be arranged by the bidder within the quoted cost.
33. The rectification of paint damage and cleaning of tanks on the work area shall be carried out by the Bidder. The Paint procurement shall be in scope of the Bidder.

Contractor's Seal & Signature

General Terms and Conditions

1. Tenderers are to carefully go through the terms and conditions and the techno commercial specification of the items for which offers are called for. Deviations, if any, shall be separately listed and specifically brought out in the offer. CSL reserves the right to accept / reject the deviations.
2. Corrections and additions, if any, must be attested. Incomplete/ ambiguous offers are likely to be rejected.
3. In case of bids sent through email, then the documents should be password protected and the passwords should be passed on to the concerned officer while attending the bid opening or by email / SMS immediately before the tender opening against the request from officer.
4. Indigenous tenderers should quote prices for delivery of materials at CSL/CMSRU stores and in the case of foreign bidders the same shall be on Ex Works / FOB basis only. C&F prices shall also be indicated in the offer. Insurance in all cases shall be arranged by CSL/CMSRU, unless it is specifically mentioned.
5. Prices should be valid for acceptance for a period of three months (03 months) from the date of opening of tender.
6. No enhancement of rate for whatever cause will be allowed once the offer is accepted and an order is placed. Withdrawal of the quotation after it is accepted or failure to make the supply within the stipulated delivery period will entail cancellation of the order and forfeiture of Earnest Money Deposit/Security deposit, if any and/or risk purchase.
7. Taxes and duties, if any, payable extra are to be indicated in the price part for single bid and in techno-commercial part for two bid.
8. Delivery term and delivery time / work completion time required for completing the job scope should be indicated in the offer.
9. CSL/CMSRU terms of payment is 100% payment after delivery of items and in case of service after satisfactory completion of job, within 30 days from the date of submission of Invoice along with all mandatory documents. Payment will be stage wise as mentioned in specific terms & conditions Encl#5.
10. The firm/ bidder winning the contract shall sign an agreement with Cochin Shipyard Ltd for "Fall clause". Accordingly, during the contract period, the firm / bidder cannot offer the item/s to anyone else at rates lower than the rates quoted, or the same lowest rate shall be applicable to the contract with CSL/CMSRU
11. Manufacturer's name, their trademark and brand, if any, should invariably be mentioned and illustrative leaflets giving technical particulars etc., should be attached to the offer.
12. Materials supplied shall be new and unused and shall confirm to CSL/CMSRU specifications and drawings.
13. Products supplied shall be nontoxic and harmless to health. In the case of toxic materials, Material Safety Data Sheet may be furnished along with the material.
14. Samples are to be supplied free of cost in the event of requirement by CSL/CMSRU. The detailed working drawing, if called for, is also to be furnished for approval before commencement of manufacture.
15. The quantities in each item to be purchased may vary according to actual requirement at the time of placing orders.

16. Force Majeure condition: Should failure in performance of the contract or part thereof arise from war insurrection, restraint imposed by Government, Act of Legislature or other Statutory Authority or illegal strike, riot, legal lock-out, flood, fire, explosion, act of God or any inevitable or unforeseen event beyond human control which may be construed as reasonable ground for an extension of time, CSL/CMSRU may allow such additional time as is mutually agreed, to be justified by the circumstances of the case. The occurrence/cessation of force majeure situation is to be informed with documentary evidence within 15 days from the date of occurrence/cessation.
17. LD Clause: In case of delay in supply of ordered materials / delay in completion of work beyond the stipulated delivery / completion period which is not attributable to CSL, vendor is to pay liquidated damages (and not by way of penalty) a sum equivalent to ½%(half percent) per week or part of the week of the order value (basic price) in the case of machinery/equipment and of the value of materials / services delayed in the case of all other items/services subject to a maximum of 10% of the order value (basic price). For service orders, completion date as confirmed by the executing officer shall be reckoned for LD calculation.
18. Risk Purchase: If the supplier fails to supply the items ordered/complete the job scope within the delivery/completions date or violate any of the terms and conditions of the contract, CSL/CANSRU shall have the following rights.
 - (1) To terminate the contract with 15 days' notice forfeiting the security deposit.
 - (2) To initiate alternate procurement action at the risk and cost of the vendor.
19. Guarantee: The equipment supplied shall be guaranteed for satisfactory performance for 12 months from the date of commissioning or 18 months from the date of delivery of items whichever is earlier against faulty design, defective materials and bad workmanship. Supplier should supply and install free of cost immediately any part found to be defective for the above reasons within the guarantee period. The Services shall be guaranteed for a minimum period of 06 months from the date of successful commissioning/final acceptance.
20. Suppliers are generally allowed to depute their authorized representative to be present at the time of opening of the price bid. However this will be subject to the discretion/SOP of CSL, in view of the restrictions imposed by Govt/local body/CSL due to Covid-19 outbreak. At present, in view of COVID-19 pandemic, Vendors are not allowed inside CSL to attend opening of the price bid.
21. Cochin shipyard Ltd prefers to deal directly with the supplier. However, if the supplier appoints an Indian agent to deal with Cochin shipyard Ltd., the agency commission payable by the supplier to such an agency shall be intimated. If manufacturers affect the supply through agents only, authorization in writing from manufacturers in favour of the agent for supply to CSL shall be furnished. In case where an agent participates a tender on behalf of a foreign manufacturer Indian agent should submit specific authorization from the authorized person of foreign manufacturer. In a tender, either the Indian agent on behalf of the principal/ OEM or principal/ OEM itself can bid but both cannot bid simultaneously for the same item/ product in the same tender. If an agent submits bid on behalf of principal/ OEM, the same agent shall not submit a bid on behalf of another principal/ OEM in the same tender for the same item/product. Indian agents cannot represent more than

one firm or quote on their behalf for any particular tender. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing/amending the data/conditions already submitted with the tender.

22. Jurisdiction: All questions, disputes or difference arising under, out of, or in connection with contracts shall be subject to the exclusive jurisdiction of the Courts at Ernakulum, Kerala, India.
23. In case advance payment is sought, interest at prime lending rates prevailing in India will be charged. In addition, a Bank Guarantee in the CSL format equivalent to advance amount is to be executed to cover the period till the advance payment is adjusted. Normally Advance payments are not encouraged.
24. Conditional discounts, if any, will not be reckoned for tender evaluation/ comparison purposes. However the same will be considered while placement of purchase order if the firm turns out to be L1.
25. After submission of tender, no unsolicited correspondence will be entertained.
26. Cochin Shipyard Limited does not bind itself to accept the lowest or any tender but reserves to itself the right to reject any or all or a part of any tender at its discretion.
27. Deviations, if any, in the offer submitted from that of the tender enquiry in any form, should be clearly furnished in a separate document titled as "List of Deviations", failing which it will be presumed that all the terms and conditions are acceptable.
28. Public Procurement Policy initiatives of Govt. of India, pertaining to MSME's, startup etc as per CSL website (www.cochinshipyard.in) shall be applicable for this tender.
29. Vendor is solely responsible for the safety of its personnel inside CSL. Service provider will be responsible for the safety of personnel engaged and shall adopt all safety measures to comply with safety regulations in force in CSL. Service representative working onboard should maintain proper dress code as per CSL standards. They shall submit electronic challan remittance copy of ESI&EPF details of their employees and employee compensation policy details for employees not falling under ESI limit during the submission of invoice, documents supporting for facilitating gate access. They are bound to follow safety guidelines applicable in CSL like safe usage of tools & tackles, electrical safety guidelines, gas management system etc. Scrap management system & disposal of hazardous chemicals used to dispose by contractor itself on his own responsibility. Work place hygiene to be ensured by contractor itself.
30. Asbestos should not be part of any material /packing material supplied to CSL.
31. Shall abide by CSL rules for entry and exit of man and materials. Vendor and personnel will comply with: (1) all procedures and policies provided by CSL, including CSL's, environmental, health, safety, and security procedures, and related management systems when performing services at CSL facilities.
32. Service provider will have to abide by the various laws & regulations such as Contract Labour Regulation (Abolition) Act, ESI Act 1948, EPF Act 1952 etc as applicable. In case your employees are already covered under EPF/ESI scheme, their respective account numbers are to be furnished along with copy of challans as proof for remittance of ESI & EPF. If any employee is exempted from ESI, valid proof for the same also shall be submitted before commencement of work. Labor deputed for the work shall not have crossed over 60 years. Submission of above documents is statutory for issue of entry passes for working

inside CSL. This is also required for releasing the payment since CSL site is permanently covered under above noted regulations. The certificate of compliance from Contractor as per attached format shall also be filled and submitted along with submission of bills for payment. Bills without duly certified "certificate of compliance from Contractor" shall not be passed for payment. (Form for Compliance of Provisions of various labour Enactments attached as Enclosure - 4)

33. Vendor will package products according to instructions of CSL provided in the purchase order, and if nothing is provided, then according to good commercial practice to ensure safe arrival of the products. Avoid plastic materials for packing to the extent possible. Packing material shall be ecofriendly. Vendor should follow the statutory requirements of the products offered. In case of chemicals and toxic materials being supplied, vendor should furnish material safety data sheet (MSDS) compulsorily along with the material.
34. Acknowledge the receipt and acceptance of purchase order/Work order by signing and returning a copy of the same within three days of receipt of the same. If the acknowledgement is not received, it will be presumed as accepted.
35. Subcontracting to other vendors shall be only after written intimation and approval of competent CSL authorities. Vendor shall not delegate or subcontract any of its obligations under the agreement without CSL's written consent. Vendor will remain liable for all subcontracted obligations and all acts or omissions of its subcontractors.
36. The procedures of work, standard operating procedures of work including documents like welding procedure specifications developed by CSL are intellectual property of CSL. Vendors shall not use or copy the procedure in any format without the written consent of competent authorities of CSL.
37. Vendors shall take back rejected products, if any, and immediately supply new product/rectified product at vendor's expense, including all freight costs.
38. For product that is discovered defective during the warranty period, vendor will, at vendor's expense replace or repair defective product and re-deliver such repaired or replaced product to CSL within a commercially reasonable timeframe agreed by CSL
39. Except as specifically stated in the purchase order, vendor will be responsible for all costs incurred in connection with providing the services, including personnel's expenses.
40. CSL is not obligated to pay any invoice submitted 180 days or more after a product is shipped or services are completed.
41. Vendor shall return the CSL resources to CSL immediately after provision of all deliverables and services or any termination of the agreement.
42. Vendor warrants that the products and services will comply with their specifications and will be of good quality acceptable to CSL/ship and must be fit for any purpose made known to vendor.
43. Vendor warrants that the products will be new, unused, and not refurbished at the time of delivery, and will be safe for normal use and free from defects in design, materials, and workmanship during the warranty period.
44. Vendor warrants that for software provided by vendor, (1) there is no open source software in the products (or any other items provided by vendor), unless vendor has notified CSL in writing before delivery and CSL has consented in writing to accepting this open source software, and (2) the software will not damage, interfere with, or permit unauthorized access to any other existing products or systems on which it is installed or any information residing on those products or systems.

45. Vendor and personnel will (1) keep confidential the terms of the agreement and all non-public and proprietary CSL information, and will only use such information to provide products and services under the agreement, and will not disclose such information except to the extent required by law after giving reasonable notice to CSL, if permitted by law; and (2) not use in providing products or services or disclose to CSL any materials or documents of another party considered confidential or proprietary unless it has obtained written authorization from that party and CSL.
46. Vendor will indemnify CSL and its affiliates, directors, officers, and employees against all liabilities, damages, losses, costs, fees (including legal fees), and expenses relating to any allegation or third-party legal proceeding (including action by a government authority) to the extent arising from an allegation that use, possession, or sale of the products or services violates or infringes a third party's rights, including intellectual property rights; or an allegation that any personnel are entitled to employee compensation, benefits, or other rights or transfer law rights, except to the extent caused by CSL's unlawful acts or omissions.
47. No enhancement of rate for whatever cause will be allowed once the offer is accepted and an order is placed. Withdrawal of the quotation after it is accepted or failure to make the supply within the stipulated delivery period will entail cancellation of the order and forfeiture of earnest money deposit/security deposit, if any and/or enforcement of risk purchase clause.
48. List of deviations from the general terms and conditions shall be submitted and the same shall be mutually acceptable. In the event of no deviation list submitted by the vendor, it is presumed that all conditions are accepted by the vendor.
49. All certificates called for in order specification must be sent to CSL at the time of delivery of items all the material supplied must satisfy CSL quality requirements.
50. Invoice:
 - (i) All invoices must be sent to CSL on delivery of items /work completion as per the order terms
 - (ii) Purchase order number and date and dispatch particulars should be clearly mentioned in the invoice.
 - (iii) Wherever payments are authorized through bank, copy of the invoice should be forwarded directly to CSL under intimation so as to facilitate release of document in time. All bank charges will be to vendor's account.
 - (iv) When the payment is in installments, separate invoice is required for each payment.
 - (v) 100% payment will be made against your invoice on satisfactory completion of the work.

The documents for releasing payment - original invoice with service report duly signed by vessel owner and CSL officer-in-charge along with documentary proof of expenses after satisfactory completion of work.

51. "In case imported items are part of the items required for the job Customs duty exemption can be availed by CSL if order for these imported items is placed on high sea sales basis by CSL or direct import order on bidder's principals for import items by CSL. In case of import orders/ high sea sales, the offer has to be on CFR basis to the nearest airport/as mentioned in the enquiry.
The customs clearance, DO charges payment and IGST payment against bill of entry shall be done by CSL.

In case of direct import orders by CSL, copy of Airway bill, foreign currency invoice and packing list would be required. In case of High Sea Sale, HSS agreement and INR invoice in addition to copy of Airway bill, foreign currency invoice and packing list shall also be required.

The copy of all documents to be forwarded to CSL by email at least two days prior to arrival of the consignment at Airport for CSL to arrange the Customs exemption documents and file Bill of entry prior/ latest on date of arrival of the consignment itself. In case of any delay in receipt of documents, the bill of entry late filing fine shall be adjusted from the vendors payment.”

Tender conditions for Restriction of bidders sharing land border with India is attached below and certificate as required in the below conditions to be submitted along with tender documents.

Tender conditions for Restriction of bidders sharing land border with India vide Office memorandum dt 23.7.2020 Order - Public Procurement no 1 dt 23.7.2020, Order no 2 dt 23.7.2020 and Order no 3 dt 24.7.2020	
A	Requirement of registration
1	Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with competent authority as per C below. In works contracts, including turkey contracts, contractors shall not be allowed to sub contract works to any contractor from a country which shares a land border with India unless such contractor is registered with Competent authority. Relevant certificate to be submitted by bidder from a country which shares land border with India except for bidders to which Govt of India has extended lines of Credit or in which Govt of India has development projects, along with the offer as proof of registration with competent authority, failing which the offer will not be considered. A certificate is to be submitted by the bidder for compliance with the order referred above along with tender documents for consideration of offer (Wordings are as per Clause below). If such certificate given by a bidder whose bid is accepted is found to be false, this would be a ground for immediate termination and further legal action in accordance with law.
2	Wordings of certificate to be submitted along with tender documents
	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this bidder is not from such a country or, if from such a country, has been registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Evidence of valid registration by the competent authority shall be attached wherever applicable).
2	Wordings of certificate to be submitted along with tender documents for Works involving possibility of subcontracting

	I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on subcontracting to contractors from such countries. I certify that this bidder is not from such a country or if from such a country has been registered with the competent authority and will not subcontract any work to a contractor from such countries unless such contractor is registered with the competent authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered (Evidence of valid registration by the competent authority shall be attached wherever applicable)
B	Validity of registration
1	Registration should be valid at the time of submission of bids and at the time of acceptance of bids. In respect of supply otherwise than by tender, registration should be valid at the time of placement of order. If the bidder is validly registered at the time of acceptance /order placement, registration shall not be a relevant consideration during contract execution.
C	Competent authority and Procedure for registration
1	The competent authority for the purpose of registration under the order shall be Registration committee constituted by the Department of Promotion of Industry and Internal Trade (DPIIT). Details of the committee and procedure for registration and restrictions shall be as per Ann I of the Order - Public Procurement no 1 dt 23.7.2020 issued by Ministry of Finance, department of Expenditure.
D	Definition of Bidder and Bidder from a country sharing land border with India
1	Bidder is defined as any person or firm or company including any, member of a consortium or joint venture, every artificial, juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person, participating in a procurement process.
2	"Bidder from a country which shares a land border with India" for the purpose of this Order means:- a) An entity incorporated, established or registered in such a country; or b) A subsidiary of an entity incorporated, established or registered in such a country; or c) An entity substantially controlled through entities incorporated, established or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above.
3	Type of business entity (Private Limited Company/ Public Limited Company/ Sole Proprietorship/ One Person Company/ Partnership/ Limited Liability Partnership/ Joint Venture/ Trust/ NGO) In case of incorporated entity - to attach certificate of incorporation

	<p>Beneficial Owners - as defined in the Department of Expenditure Order (Public Procurement No.1) issued vide No. F.No.6/18/2019-PPD dated 23rd July, 2020. Details of all beneficial owners having entitlement of more than 01% of shares or capital or profit to be given, in the format as given in Annexure-I duly certified by practicing Chartered Account in India.</p>
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52. Following are the Tender Conditions Preference to Make in India

Tender condition - Preference to Make in India		
A	Purchase preference in accordance with Public procurement (Preference to Make in India Order - 2017) Order from Department of Promotion of Industry and Internal Trade P - 45021 /2/2017/-B.E -II dt ,4.6.2020 and as amended from time to time shall be applicable as per below	
1	In the procurement of all goods/services/works in respect of which there is sufficient local capacity/local competition, only Class I Local suppliers shall be eligible to bid irrespective of purchase value	
2	In the procurement of all goods/services /works which are not covered as above and with estimated value of purchase less than Rs 200.0 Crores, only Class I local suppliers along with Class II local suppliers shall be eligible to bid.	
Purchase preferences for Class I local suppliers		
B	In the procurement of goods/works covered under 2 above and which are divisible in nature, Class I local supplier shall be eligible for Purchase preference over Class II/Non local supplier as per following	
1	If L1 bid is not a Class I local supplier, 50% of the order quantity shall be awarded to L1. Thereafter the lowest bidder among Class I local supplier will be invited to match the L1 price for the remaining 50% quantity subject to Class I local supplier quoted price falling within 20% margin. Contract for that quantity shall be awarded to such Class I local supplier subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price or accept less than offered quantity, next higher Class I local supplier within 20% margin shall be invited to match the L1 price for the remaining qty and so on. If some quantity is left uncovered on Class I local supplier, such balance quantity shall be ordered on L1 bidder.	

2	For procurements that are not divisible in nature and in procurement of services evaluated on price alone, Class I local supplier shall get purchase preference over Class II/Non local supplier as per below	
3	If L1 is not a Class I local supplier, lowest bidder among Class I local supplier will be invited to match L1 price subject to Class I local supplier quoted price falling within 20% of L1 price and contract will be awarded to such Class I local supplier, subject to matching L1 price. In case such lowest eligible Class I local supplier fails to match L1 price, procedure same as para 3 above will be opted. In case none of Class I local suppliers within 20% margin matches L1 price, contract shall be awarded to L1 bidder. The purchase preference as above will be only for Class I local supplier and Class II local supplier will not be eligible for any Purchase preference	
C	Local content requirement to categories a supplier as Class I/Class II /Non local supplier shall be as per below. Definition of local content shall be as per order dt 4.6.2020 ie amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of import content in the item (including all customs duties) as a proportion of total value in percentage.	
1	Class I -Local content equal to or greater than 50%	
2	Class II-Local content greater than 20%, less than 50%	
3	Non local -Local content less than 20%	
D	Declaration of local content	
1	Class I local supplier /Class II local supplier at the time of tender shall indicate % of local content and provide self certification that offered item shall meet the local content requirement for ClassI/Class II as applicable including details of locations at which local value addition is made.	
2	In case of procurement for a value in excess of Rs 10.0 Crores Class I/Class II local supplier is to provide a certificate from statutory auditor/cost auditor(for companies) /practicing cost accountant/Chartered accountant (suppliers other than companies) indicating % of local content	
3	Verification of the Certificates issued by the bidder shall be carried out by CSL on random basis. False declarations will attract actions as stipulated in the order referred, including other actions as permissible by law.	
4	Exemption is applicable from provisions of order for purchases with estimated values less than Rs 5.0 lakhs	

5	Notwithstanding above, exemptions for meeting local content as per relevant Clause of order dt 4.6.2020 and as amended from time to time shall apply.	
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53. ARBITRATION :

1. Any disputes arising the currency of the contract shall, in the first instance be settled by mutual discussions and negotiations. The results of such resolution of dispute shall be incorporated as an amendment to the contract, failing which the parties can resort to arbitration.

2. If any dispute, disagreement or question arising out of or relating to or in consequence of the contract, or to its fulfillment, or the validity of enforcement thereof, cannot be settled mutually or the settlement of which is not herein specifically provided for, then the dispute shall within thirty days from the date either party informs the other in writing that such disputes, disagreement exists, be referred to arbitration. The arbitrators shall be appointed and the arbitration proceedings shall be conducted in accordance with and subject to the Arbitration and Conciliation Act, 1996 (No. 26 of 1996) as amended form time to time and the decision of the Arbitrators shall be final and binding on the parties hereto. The arbitration will be done by a Board comprising one officer nominated by each party, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. The enforcement of the award shall be governed by the rules and procedures in force in the State in which it is to be executed. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.

3. In case of disputes, the same will be subjected to the jurisdiction of courts at Ernakulam, Kerala, India only.



COMPLIANCE MATRIX

SL.No	CSL Tender requirement	Bidder	Remarks
	CRANE SPECIFICATIONS		
1	The Crane Make, Model and country of Origin to be specified		
2	Pedestal mounted Electro Hydraulic Marine crane - 10T (SWL) Maximum working radius of the crane to be from 13-15 metres and the boom length in full retraction of crane should not be more than 10 metres.		
3	Boom type - FIXED JIB TELESCOPIC BOOM TYPE (Preferred). To be specified		
4	Power supply: 440V, 60 Hz 3 phases		
5	Sea state 4 condition (10T@13-15m boom)		
6	Operator platform with seat and Remote Control		
7	Pedestal adapter: Built-in pedestal Height 1400mm (Preferred)		
8	Working condition: Off board lift type The cargo shall be movable from off board to on board		
9	Hoisting speed: 0~10 m/min		
10	Slewing angle: 360 degrees continuous		
11	Slewing speed: To be specified		
12	Luffing time: 60 sec approx. (Preferred)		
13	Heel/Trim: 5 degree/2 degree		
14	Ambient Air Temperature: 45 degrees centigrade Sea water temperature: 32 degree centigrade		

15	Crane height: Built in height Max. 4.25 M		Total crane height including pedestal height to be specified.
16	Lifting Height: 25M (Preferred)		
17	Weight of the Crane (including pedestal adapter) – Not more than 12 Ton		
18	Lead time of Delivery of Crane- CIF Mumbai, 20 Weeks from issue of PO		
19	Certification: Class Approval certificate from IACS Manufacture Quality and lifting gear certificate. Certificate required by Dock labour board for lifting appliances		
20	Static: 1.25 SWL Dynamic: 1.1 SWL		
21	The device shall be operated remotely with a remote control having cable of sufficient length (Not less than 8 M) for operation and alternative provision for manual operation shall be provided.		
22	Electrical / Mechanical hook stop (Lifting side) to be provided.		
23	Automatic fail-safe arrangement in case of supply failure or overload with break holding capacity to excess of max. S.W.L to be provided.		
24	Emergency manual lowering and slewing facility to be provided by the firm		
25	All manual controls shall be fitted at standard operating height at man's reach from main deck.		

26	Complete supply of equipment with starter, mating flange, foundation bolts, deck seating etc. (All fasteners shall be of Stainless-steel marine grade quality) with remote cable control panel (storage place on crane is to be provided for this panel).		
27	<ul style="list-style-type: none"> • Crane shall be supplied with suitable pedestal of convenient working height. • Vertical ladder/ rung ladder shall be fitted on pedestal of crane for routine maintenance. • Crane jibs shall be provided with jib rest. • Initial filling of hydraulic oil and lubricants shall be in firm's scope. • Hoisting winch with ropes sufficient for lifting items from approximate 10 meters below deck base. 		
28	<p>The following details are to be forwarded to CSL, along with technical offer:</p> <ul style="list-style-type: none"> - Weight break-up with position of center of gravity (CG of crane to be indicated in both stowage and operating condition) - Electric diagram - General arrangement plan (i.e., plan, front elevation, side elevation of the crane indicating dimensions.) 		To be submitted
29	Crane is to be inspected and certified by IRS/ IACS member class at manufacturer premises.		
30	The OEM shall confirm product support after delivery of the equipment. In any case, the equipment is likely to become obsolete, the OEM shall communicate to give a three year notice to access the requirement of lifetime buy		

	of spares. The OEM shall also ensure supply of these items prior to discontinuation of production facilities. OEM should be able to support for spares and service for Minimum 20 Years from the date of commissioning and the undertaking for the same shall also be provided.		
31	Electric motor details: Enclosure: IP56 Insulation class: F Temperature rise: B		
32	Power consumption in KW, Max 55 KW		
33	Cable specifications: XLPE, copper cable, annealed and tinned, stranded copper conductor. The cable size shall be suitable for the motor KW power rating.		
34	All safety cut outs such as overload, hoisting, over current etc. and all controls as per class shall be provided same shall be shown to class/Owner during Factory acceptance test.		
35	The Onboard Spares Meeting Classification rule requirements and as recommended by OEMs for onboard maintenance routines and possible repair requirements for two years. An itemized list of OBS indicating cost of each spare, to be furnished along with the quotation for main equipment.		OEM recommended On board spare parts for 2 years of operation shall be provided. In addition, list for OBS indicating cost of spares for our future reference to be provided. The spare part list shall be authenticated by the OEM.
36	Upper part of jib rest will be supplied by maker		
37	Documentation in Hard and soft copies (Three sets to be provided): Finished Plans/Drawings. Suppliers and makers drawings for machinery. Instruction books. Maintenance manual.		

	<p>Operating manuals. Installation Manual/Handbook. Inter-unit cable diagrams. Spare parts list. Physical Dimensional drawings. FAT report. Commissioning report including onboard load test. Load Test Certificates. Class certificates.</p>		
38	<p>One (1) year standard warranty period shall be provided by bidder during which OEM has to rectify the defects arising during above period at any suitable berth/anchorage and by providing the required materials & labour with supplier's cost. The required materials and labour to be arranged by the supplier promptly to rectify the defects.</p>		
39	<p>OEM /OEM authorized representative for Installation, commissioning & testing of crane as per OEM procedure. Cost of the same included in the quote</p>		
40	<p>IACS member fee for FAT included in the quote</p>		
41	<p>The onboard tests and trials shall be offered to the Class, CSL and the vessel owner for commissioning of the system as per procedure of trials.</p>		
42	<p>The classification societies fee for drawings, approvals, inspection, testing and certification and any other fee shall be borne by the supplier.</p>		
43	<p>The supplier submitted the OEM authorization letter along with complete details of the OEM.</p>		

44	The crane shall be supplied at CMSRU by the firm within the quoted cost.		
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Health, Safety & Environment Contract Guidelines for OEMs /Turnkey jobs / Sub contract works inside CSL

Introduction

CSL is the largest public sector shipyard in India in terms of dock capacity, and caters to clients engaged in the defence sector in India and clients engaged in the commercial sector worldwide.

CSL is committed to provide safe and healthy work environment for the prevention of work- related injury and ill health by following the best practices in safety. CSL is certified Occupational Health and Safety management System and Environmental Management system under ISO standards/international standard.

Many of the works of CSL at various sites are executed by the sub-contractors. During these works, sub-contractors personnel are likely to be exposed to different types of hazards. Similarly unsafe acts of contractors personnel may create hazards for CSL staff or workmen of other contractors working at the site. Such unsafe acts may also pose danger to the existing installations and even to members of public.

CSL ensures that the requirements of its HSE Management System are conveyed by contractors and their workers. This guide is prepared to facilitate safe working during execution of contract works. The General guidelines and HSE requirements are given below for compliance in CSL.

I. General guidelines

1. OEMs/Turnkey jobs /Contractors are selected to work inside the CSL based on their track record.
2. Along with the contract order/Registration, a copy of the HSE Safety Handbook (CSL/QMS/S&F/SOP 02) of CSL is given to all contractors. The details of all HSE requirements to be followed in CSL for the various types of work are detailed in the hand book. The OEMs/Turnkey jobs /Contractors shall go through all the details and strictly follow the relevant HSE guidelines for their work. In case of any doubt the same shall be clarified from Chief Safety Officer (CSO). Being ignorant of these HSE requirements will not be treated as an excuse for any HSE violations during course of work.
3. OEMs/Turnkey jobs /Contractors workmen are given a multilingual HSE induction and Emergency Response training. The individual passes for contractors and their workers are issued only after successful completion of this training. The passes are revalidated every year after successful completion of refresher training. Training requirements of other roles of the subcontractor's staff shall be complied as per the CSL requirements time to time.
4. Before start of any work, the CSL officer in charge explains the scope of work and the safety precautions, hazards, PPE usage as per PPE matrix of CSL, Work Instructions, SOPs, Emergency responses to the contractor and his workers. Only trained worker with necessary skills are allowed to work as per the requirement. Necessary PPEs for the work are to be arranged by the contractor.
5. Workmen shall have Cotton coverall with identifiable logo on the dress. Supervisors, fire watch man if required, safety staff and other workforce shall be deployed as per CSL guide lines.
6. The site work supervisor of the OEMs/Turnkey jobs /Contractors shall be ensured that works are being carried out by CSL HSE requirements on daily basis and till the completion of works. The safe start and safe end requirements shall be verified by the site work supervisor on daily basis.
7. OEMs/Turnkey jobs /Contractors HSE performance will be evaluated on HSE matters as per the CSL policies time to time.
8. During the course of work if any HSE violation is noticed the same is dealt as per the Rewards and Reprimand (R&R) Policy of CSL.

II. HSE requirements

1. The OEMs/Turnkey jobs /Contractors shall take all safety precautions during the execution of awarded work and shall maintain and leave the site safe at all times. At the end of each working day and at all times when the work is temporarily suspended, he shall ensure that all materials,

- equipment and facilities will not, cause damage to existing property, personal injury or interfere with the other works of the project or Station.
2. The OEMs/Turnkey jobs /Contractors shall provide and maintain all type of lights, guards, fencing, warning signs, caution boards and other safety measures for vigilance as and where necessary or as required by the CSL officer-in-charge or Safety staff. The caution boards shall also have appropriate symbols.
 3. Where Permit to work (PTW) is required, the work has not started without obtaining the necessary permit and the PTW requirements are followed strictly throughout the work.
 4. For Project specific or non-routine work on the existing installations, separate Job Safety Assessment (JSA) is to be prepared by the contractor, cleared by the Dept in charge and approval obtained from CSO before start of work.
 5. A separate HSE plan will be required for the new projects in the yard or any turnkey projects. It shall be in line with CSL HSE requirements and same shall be routed through respective S&F dept and approved by respective HOD.
 6. OEMs/Turnkey jobs /Contractors shall hold toolbox talks with his workers on daily basis to convey matters regarding the Safety aspects of the work.
 7. The OEMs/Turnkey jobs /Contractors shall plan his operations so as to avoid interference with other Departmental works and other Sub-Contractors at the site. In case of any interference, requires, coordination shall be sought by the contractor from the Department for safe and smooth execution of work. This shall be done through CSL executing officer.
 8. The OEMs/Turnkey jobs /Contractors shall at all times keep their work spot, site office and surroundings clean and tidy from rubbish, scrap, surplus materials and unwanted tools and equipment. Welding cables, hoses and electrical cables shall be so routed as to allow safe way to all concerned.
 9. All waste generated in course of the work shall be segregated as per the yard requirements and shall be disposed at the respective collection pallets / points of the work areas as the case may be. Any kind of pollution made by the subcontractor shall attract the reprimand proceedings.
 10. All necessary precautions shall be taken to prevent outbreak of fires at the work site. Adequate provisions shall be made to prevent the possibility of fires and ensure the availability of fire extinguishers at site.
 11. The OEMs/Turnkey jobs /Contractors shall be held responsible for non-compliance of any of the safety measures and delays, implications, injuries, fatalities and compensation arising out of such situations of incidents including statutory obligations.

**BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT/
WARRANTY GUARANTEE**

To
COCHIN SHIPYARD LTD. MUMBAI SHIP REPAIR UNIT
(GOVT. OF INDIA ENTERPRISE,)
HDD OFFICE BUILDING, GREEN GATE, SHOORJI,
MUMBAI. MAHARASHTRA, 400001, INDIA.

WHEREAS(Name & Address of Supplier)(hereinafter called "**the Supplier**")
has undertaken, in pursuance of Contract.....No.....
Dated: to execute (Name of Contract and brief description
of works) (hereinafter called "**the Contract**").

AND WHEREAS it has been stipulated by **COCHIN SHIPYARD LTD- MUMBAI SHIP
REPAIR UNIT** (The Buyer- hereinafter called "**CMSRU**") in the said contract that the
Supplier shall furnish **CMSRU** with a Bank Guarantee for the sum specified therein as
security for compliance with the Supplier's obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier such a Bank Guarantee.

NOW THEREFORE we..... (Name of the Bank) having its Head Office at
.....(Address of Head Office) and acting through its branch office at
(Address of the executing branch) (hereinafter called "the Bank") hereby affirm that we
are the Guarantor and responsible to **CMSRU**, on behalf of the Supplier up to a total of
..... (amount of Guarantee)in words)

We, the bank, hereby irrevocably undertake to pay you any amount not exceeding in
total the Guarantee Amount upon receipt by us of your demand in writing accompanied
by the following documents:

- 1.Your signed statement certifying that the Supplier is in breach of his obligation(s)
under the Contract and the respect in which the Supplier is in breach.
2. Your signed statement certifying that the Supplier has been given a prior written
notice by email from you to make good the aforesaid breach and that the Supplier still
failed to fulfill the Contract within 30 days of such notice. A copy of such notice given by
email to the Supplier shall be attached to the demand for payment.

Any demand for payment should contain your authorized signatures which must be
authorized by your bankers or by a notary public.

We, the Bank, further agree that no change or addition to or other modification of the
terms of the Contract or of the Works to be performed there under or of any of the
Contract documents which may be made between **CMSRU** and the Supplier shall in any

way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification. We, the Bank, further agree that any change in the constitution of the said contractor or the said bank shall not discharge our liability hereunder.

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed
(..... only).

2. This Bank Guarantee shall be valid up to (date) and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if **CMSRU** serve upon us a written claim or demand on or before(validity date).

Any demand for payment under this guarantee must be received by us at this office during working hours on or before the validity date. Should we receive no claim from you by the validity date, our liability to you will cease and the guarantee will definitely become null and void whether returned to us or not.

Yours truly,
Signature and seal of the
guarantor:

Name of
Bank:

Address:

Date:

[1] An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in respective Dollars / Indian Rupees/Other Currency.