

TENDER ENQUIRY

Dt. 24.01.2025

Tender Ref No: MP1/Hiring of vehicles/CMSRU

Dear Sir,

Sealed Tenders in Two Bid, super scribing the Enquiry Number & Last date for receipt of Quotations on the envelope, are invited for **Hiring of Four Seater and Seven Seater vehicles at CMSRU.**

1. The offers as above should reach the undersigned on or before the last date and time shown.
Tenders Deputy 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 **11.00 hrs (IST) on 13 February 2025**, if delivery of sealed offers cannot be ensured at CSL on the due date.
3. Quotation should be valid for a period of 3 months.
4. Quotation submitted by email as a documents (price part should be password protected) shall be sent to the following email address.

lijo.jacob@cochinshipyard.in

cmsru.planning@cochinshipyard.in

Last Date & Time of Receipt of Tender: **13 February 2025 at 11.00 Hrs IST.**

Tender Opening date & time: **13 February 2025 at 11.30 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.in regularly. Such amendments shall be binding upon them.

In case of technical queries, please contact Mr. Lijo S Jacob, (Manager- Materials)
(e-Mail: lijo.jacob@cochinshipyard.in , Mob no. +91 9310377261)

Yours faithfully,

Deputy General Manager (CMSRU)

CSL-MUMBAI SHIP REPAIR UNIT (CMSRU)

Mumbai

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 Scope of Work (Encl 2), Rules for engaging contractor's workmen in CSL-MSRU (Encl 4), Specific terms & Conditions (Encl 5), General Terms and Conditions (Encl 6), Compliance Matrix (Encl 7).
- IV. Deviation list, if any
- V. **Price bid without price clearly indicating quoted/ not quoted against each line item/ DL(Encl:8).**

3. PRICE PART SHOULD CONTAIN FOLLOWING DETAILS: -

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

4. CSL/CMSRU reserves the right to alter, modify the scope of supply at them discretion and consistent with the Navy Policy 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 Encl 2, 4, 5, 6 ,7, 8 & 9 along with their bid as token of acceptance of terms & Conditions.
14. An Integrity Pact as per CSL/CMSRU 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.

Deputy General Manager (CMSRU)

SCOPE OF WORK

A. Scope of work

1. Hiring of one A/c 05 seater(Hatchback) car (Suzuki Espresso/Alto/Celerio/Renault Kwid) along with driver for an average use on all days in a month for a period of 1 year. Additional A/c hatchback cars would be required on a need basis.
2. Hiring of one A/c 05 seater (Sedan) cars (Swift Dzire, Etios, Amaze, Glanza, or Baleno) along with driver for an average use on all days in a month for a period of 1 year. Additional A/c 05 seater Sedan cars would be required on a need basis.
3. Hiring of one A/c premium 07 seater car (Innova-crysta HYCROSS) with driver on as required basis. Additional cars would be required on a need basis
4. Hiring of one A/c 07 seater car (Ertiga, Bolero, Scorpio or Carens) along with driver on as required basis. Additional cars would be required on a need basis
5. Hiring of A/c 17 seater, 27 seater and 49 seater buses along with driver for a period of 1 year. The requirement of quantity / type of buses will depend upon variable demands from CMSRU clients and type of vessels undertaken for repairs. The demand for vehicles shall be intimated by CMSRU to facilitate mobilization of resources by the contractor
6. Firm should have dedicated functional office in Mumbai and address proof of office should be submitted along with technical bid.
7. Firm Should have dedicated fleet of handling more than 100 vehicle or minimum turnover of Rs. 20 lakhs in FY.

B. Other terms and conditions

1. Additional cars requirement (05 seater including driver & 07 seater including driver) shall be intimated one day in advance, requirement of buses shall be intimated at least 3 to 5 days in advance.
2. At a time, vehicle requirement may go up to 10 vehicles.
3. The vehicles should be registered and manufactured on or after Jan 2021.
4. Trip sheet should be filled by the firm and to be duly certified by the user / officer in charge / designated officer of CMSRU on every day of usage of vehicle.
5. The starting Kilometre and Time of each trip will be from the reporting location informed by CMSRU. Similarly, closing kilometre and time will only be considered till the destination of the particular trip as informed. Hence no extra Km & hrs will be considered for garage
6. Vendor may arrange for parking of the vehicles near to CMSRU office
7. Payment of Toll fee, parking fee, etc. which may become necessary during the trips has to be initially paid by the contractor and the same will be reimbursed by CMSRU against supporting documents countersigned by officer in charge CMSRU along with running bills while releasing payment. Vehicle shall mandatorily possess FASTag.
8. In case of breakdown or any other blockage due to the failure of vehicles that may occur during trips, the contractor shall provide alternate vehicle immediately at their cost. If the contractor fails on this, CMSRU reserves the right to engage vehicles from other sources and the cost so incurred shall be borne by the Contractor along with penalty as per the clause stated below.
9. CMSRU has the right to reject the vehicle if the vehicle is found not in good condition.
10. Vehicles should have valid and proper documents like RC Book, Insurance Policy, Tax paid token, Pollution certificates, first aid medicines, FASTag etc. during the contract period all statutory conditions to be fulfilled by contractor at their cost.

11. The vehicle should report with sufficient quantity of fuel and other consumable for meeting the day's work.
12. The vehicle reporting to site on continuous basis shall be neatly maintained and in good condition, there shall not be frequent change of vehicles without valid reason.
13. The Driver should be well dressed and always wear uniform(white shirt and white trouser) while on duty and amiable in nature. The driving shouldn't be consuming any tobacco related substances like pan / ghutka /cigarettes etc while on duty for CMSRU.
14. The drivers provided should not have any history of criminal records or Alcoholism or Drug Addiction.
15. **Vehicle should be maintained always neat and clean.**
16. CMSRU will not take any responsibility for any liabilities caused by the contractor/driver in respect of the vehicle's tax, insurance, road permit, an accident, penalties by RTO / Police authorities etc. or will not compensate part or full whatever may be the reasons.
17. The firm should not subcontract the work in part or full.
18. The contractor shall be solely responsible for the consequences arising out of any loss, damage or accident caused to the vehicles/driver while on duty. Any labour issues with drivers have to be settled by the contractor himself, CMSRU will not have any responsibility for any issue between contractor and the drivers, for any injury or illness to contractor's workmen/other personnel during execution of work. In this regard contractor will have to fully indemnify CMSRU against any claim made by his workmen/other personnel.
19. Speed limit inside CMSRU premises is Max 20 Km/Hr.
20. No parking is permitted inside CMSRU after duty hours.
21. CMSRU reserves the right to award the contract to one or more contractors or may split the scope of work depending upon the actual necessity during the pendency of the contract, as deemed fit.
22. The persons provided by the contractor shall not claim any benefit/ compensation/absorption/regularization of service from/in this firm under the provision of industrial Disputes Act,1947 or Contract Labour (Regulation and Abolition) Act 1970. Undertakings from the persons to this effect shall be required to be submitted by the contractor to this firm.
23. CMSRU shall not be under any obligation for providing employment to any of the worker of the contractor after the expiry of the contract. CMSRU does not recognize any employee- employer relationship with any of the workers of the contractor.
24. The bidder has to indemnify the CMSRU against all claims, damages or compensation under the provisions of Central Minimum Wages Act,1948 and other labour laws in force from time to time and Payment of Wages Act, 1936, Employer's Liability Act, 1938; the Workman Compensation Act,1923, Industrial Disputes Act,1947; Maternity Benefit Act,1961; Bonus Act; Contract Labour (R & A) Act 1970, or any modification thereof, Child labour (Prohibition & Regulation) Act, 1986 or any re-enactment or modification of the same and any other Social Security benefits including prescribed number of leave/holidays and prescribed hours of work Schedule to the personnel deployed and all Acts related to Social Security(ESIC & EPF etc), GST wherever applicable & other Labour legislations, and such statutory orders from time to time CMSRU will not own any responsibility in this regards and the Contractor will be liable for any consequences resulting from violation of any such rule/provision.
25. The firm must comply with statutory requirements, ESI/EPF, and other labour laws/regulations in force and as amended from time to time by Govt. The firm must abide by minimum wages act as governed by Govt. rules in force and as amended in future. And submit the proof against the same, if required.
26. All relevant clauses of general conditions of contract prevalent in CMSRU will be applicable to this contract also HSE guidelines issued by CMSRU from time to time shall be followed by the contractor.
27. The vehicles offered should conform to the Emission norms laid down by Pollution Control Board and should possess the certificate "Pollution under Control" issued from the authorities concerned.

28. The vehicles offered for hire should be free from litigation as regards ownership is concerned and should possess no tainted history as rash driving, negligence or violation of traffic rule etc.
29. Payment shall be made monthly at actuals by NEFT to the account of contractor against invoice in triplicate supported by work completion certificate sheet / work log book duly certified by the user / the officer in charge / designated officer of CMSRU / designated officer and ESI/EPF remittance documents in respect of drivers. A copy of trip sheet is enclosed for reference and use (Annexure (1)). In case ESI/EPF remittance documents not submitted with invoice, reasons thereof to be submitted along with invoice. The bank name, account number, IFSC code and other bank details shall be furnished by the contractor in the prescribed format of CSL (Kochi).
30. The invoices to be raised on officer-in charge, CMSRU, HDD office building, Green Gate, Shoorji Vallabhdas Road, Fort, Mumbai – Maharashtra, PIN – 400001. GST registration no. of CSL MSRU is GSTIN 27AAACC6905B1Z4 which is to be indicated on each bill raised.
31. Any loss/damage sustained by CSL - Mumbai ship repair unit (at Mumbai port trust) on account of any negligent act of the driver/personnel engaged by the contractor will be fully recovered from the contractor.
32. The contract shall be valid for a period of 1 year, but extendable up to a further period of 12 (twelve) months on same rate, terms and conditions for first 6 months and on mutually agreed rates/terms and conditions for remaining 6 months.
33. A recovery of 10% will be made from the contractor's bills towards security deposit to maximum of Rs. 8.00 Lakhs (Rupees eight Lakhs only) and will be returned only one (1) month after expiry of the contract.
34. The firm shall comply with guidelines issued by Mumbai Port trust for entry/exit and use of vehicles within Mumbai Port Trust and submit necessary documents for this purpose.
35. The service offered by the firm will be evaluated during the period of the contract period and if the services offered by the firm is found not satisfactory or not complying with the terms and conditions, then the contract shall be terminated with 02 months of notice issued to firm by CSL. In case the firm decides to terminate contract, two months' notice shall be given to CSL by the contractor.
36. Formalities for the passes for the vehicles and the driver for entry inside the Mumbai Port premises has to be done by the contractor. Minimum of 6~8 vehicles shall be kept ready with passes.
37. Entry charges for Mumbai port authority to be paid by vendor
38. **Penalties & Fine**

Sr. No	Nature of Default	Default Details	Penalties		
			1st Instance	2nd instance	3rd instance & more
	Non-deployment of vehicle/driver(no replacement provided)	Non-deployment for 30 min or more, no replacement provided up to 2 hours	Amount of charges for vehicle hired by Buyer from third party	Amount of charges for vehicle hired by Buyer from third party and a penalty of 5% of monthly vehicle hiring cost	Amount of charges for vehicle hired by Buyer from third party and a penalty of 10% of monthly vehicle hiring cost
	Non-deployment of vehicle/driver(replacement provided)	Non-deployment for 30 min or more, replacement provided within 2 hours	Warning	Penalty of 3% of particular vehicle hiring cost	Penalty of 5% of particular vehicle hiring cost

	Breakdown of vehicle during trip (no replacement provided)	No replacement provided up to 2 hours	Amount of charges for vehicle hired by Buyer from third party	Amount of charges for vehicle hired by Buyer from third party and a Penalty of 4% of monthly vehicle hiring cost	Amount of charges for vehicle hired by Buyer from third party and a penalty of 8% of monthly vehicle hiring cost
	Breakdown of vehicle during trip (replacement provided)	Replacement provided within to 2 hours	Warning	Amount of charges for vehicle hired by Buyer from third party and a penalty of 2% of monthly vehicle hiring cost	Amount of charges for vehicle hired by Buyer from third party and a penalty of 4% of monthly vehicle hiring cost
	Delay in arrival of vehicle/driver	For 30 mins or more	Warning	Penalty of 1% of vehicle hiring cost	Penalty of 2% of vehicle hiring cost
	Misbehavior by driver/ unacceptable behavior by driver	Any instance	Penalty of Rs.1000	Penalty of Rs.2000/-	Penalty of Rs.2500/-
	Driver in intoxicated state	Any instance	Penalty of Rs.2500/-		
	Failure to address deficiencies pointed out at inspection	Deficiencies not addressed after 24 hours of inspection	Penalty of Rs.500/-	Penalty of Rs.800/-	Penalty of Rs.1000/-
	Driver not having valid driving license / Uninsured vehicle or expired insurance.	License / Insurance	Penalty of Rs.1000/-	Penalty of Rs.1200/-	Penalty of Rs.1400/-
	Seat belts not available, dis-functional or not used in vehicle.	Seatbelts to be working condition	Penalty of Rs.1000/-	Penalty of Rs.1200/-	Penalty of Rs.1400/-
	Driver found consuming tobacco related substances like pan / ghutka /cigarettes etc during duty hours.	Any instance	Penalty of Rs.1000	Penalty of Rs.2000/-	Penalty of Rs.2500/-

39.REQUIREMENT:

Car Type	Ambulance Type	Rates
A/c 05 seater(Hatchback) car (vehicle duration of continuous nature – more than a week)	(A).Fixed rates up to 600 KM/Week upto 55 hours/ week. Vehicle with Driver (Suzuki Espresso/Alto/Celerio/Renault Kwid).	
	(B). Rates beyond 600 KM/Week Charges per km after completion of 600 kms in a week will be calculated as (extra km charges):	
	(C). Rates beyond 55 hours/ week Charges per hour after completion of 55 hours in a week will be calculated as (extra hour charges):	
A/c 05 seater(Sedan) car (vehicle duration of continuous nature – more than a week)	(A).Fixed rates up to 600 KM/Week upto 55 hours/ week. Vehicle with Driver (Swift Dzire, Etios, Amaze, Glanza, or Baleno).	
	(B). Rates beyond 600 KM/Week Charges per km after completion of 600 kms in a week will be calculated as (extra km charges):	
	(C). Rates beyond 55 hours/ week Charges per hour after completion of 55 hours in a week will be calculated as (extra hour charges):	
A/c 07 seater car - (Additional requirement / need basis)	(A).Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Ertiga, Bolero, Scorpio or Carens).	
	(B). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
A/c premium 07 seater car (Innova-crysta HYCROSS) (Additional requirement / need basis)	(A).Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Innova-crysta HYCROSS).	
	(B). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
A/c 05 seater(Hatchback) car (Additional requirement / need basis)	(A).Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Suzuki Espresso/Alto/Celerio/Renault Kwid).	
	(B). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
A/c 05 seater(Sedan) car (Additional requirement / need basis)	(A).Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Swift Dzire, Etios, Amaze, Glanza, or Baleno).	
	(B). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	

Non A/C 17 Seater Bus	(A).Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver	
	(B). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
Non A/C 27 Seater Bus	(A).Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver	
	(B). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
Non A/C 49 Seater Bus	(A).Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver	
	(B). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	

Price bid			
MP1/Hiring of Four Seater and Seven Seater vehicles/CMSRU		Encl.2	
S/No.	Description of Work	Rate	GST%
1	A/c 05 seater(Hatchback) car (vehicle duration of continuous nature – more than a week)	(A). Fixed rates up to 600 KM/Week upto 55 hours/ week.Vehicle with Driver (Suzuki Espresso/Alto/Celerio/Renault Kwid). (B). Rates beyond 600 KM/Week Charges per km after completion of 600 kms in a week will be calculated as (extra km charges): Rates beyond 55 hours/ week Charges per hour after completion of 55 hours in a week will be calculated as (extra hour charges):	
2	A/c 05 seater(Sedan) car (vehicle duration of continuous nature – more than a week)	Fixed rates up to 600 KM/Week upto 55 hours/ week. Vehicle with Driver (Swift Dzire, Etios, Amaze, Glanza, or Baleno). Rates beyond 600 KM/Week Charges per km after completion of 600 kms in a week will be calculated as (extra km charges): Rates beyond 55 hours/ week Charges per hour after completion of 55 hours in a week will be calculated as (extra hour charges):	
3	A/c 07 seater car - (Additional requirement / need basis)	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Ertiga, Bolero, Scorpio or Carens). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges): Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
4	A/c premium 07 seater car (Innova- crysta ,HYCROSS) (Additional requirement / need basis)	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Innova-crysta HYCROSS). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges): Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	

5	<p>Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Suzuki Espresso/Alto/Celerio/Renault Kwid).</p> <p>Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):</p> <p>Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):</p>	
6	<p>Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Swift Dzire, Etios, Amaze, Glanza, or Baleno).</p> <p>Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):</p> <p>Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):</p>	
7	<p>Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver</p> <p>Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):</p> <p>(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):</p>	
8	<p>Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver</p> <p>Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):</p> <p>Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):</p>	
9	<p>Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver</p> <p>Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):</p> <p>Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):</p>	
TOTAL AMOUNT		
TOTAL AMOUNT INCLUSIVE OF GST		
Completion period		
Seal&Sign of authorised person		

COMPLIANCE MATRIX

(TO BE SUBMITTED WITH THE "Technical" BID)

SL.NO.	DESCRIPTION	REMARK
1.	ACCEPT THE ENTIRE SCOPE OF WORK AS PER ENQUIRY	YES / NO
2.	IF THE ANSWER TO QUESTION 1 ABOVE IS NO, PLEASE LIST THE SPECIFIC JOBS NOT BEING UNDERTAKEN AS A DEVIATIONS LIST AND ATTACH WITH THIS MATRIX.	LIST OF DEVIATIONS FROM SCOPE OF WORK ATTACHED/ NOT ATTACHED
3.	ACCEPT THE GENERAL TERMS AND CONDITIONS AND TENDER TERMS & CONDITIONS INDICATED IN THE ENQUIRY.	YES / NO
4.	IF THE ANSWER TO QUESTION 3 ABOVE IS NO, LIST THE DEVIATIONS AND ATTACH WITH THIS MATRIX.	LIST OF DEVIATIONS FROM GTC.
5.	PAYMENT TERMS AS INDICATED IN ENQUIRY IS ACCEPTABLE.	YES / NO

(Signature of the Contractor)

Seal of the firm.

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 Challan 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 states shall have to take police clearance from their respective home station to submit application form for obtaining police clearance from Mumbai Police Station.
- IV) Employee/worker deputed for the work shall not be over 58 Years of age.

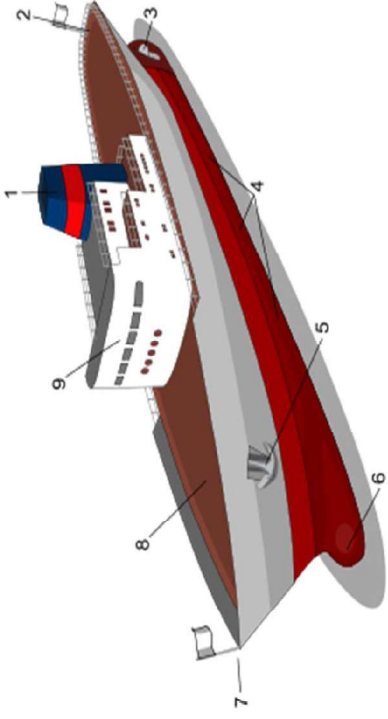
Seal & Sign of Authorized Person

Cochin Shipyard Limited

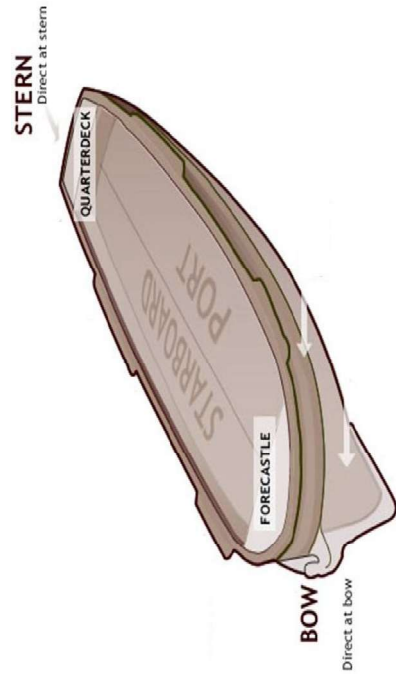
Mumbai Ship Repair Unit
QHSE Department



BASIC SHIP TERMINOLOGY



- 1. Funnel
- 2. Stern
- 3. Propeller
- 4. Port Side [Right side "Starboard side"]
- 5. Anchor
- 6. Bulbous Bow
- 7. Bow
- 8. Deck
- 9. Super Structure



HSE Hand book

Emergency Telephone Numbers

022-?????

WHILE MAKE AN EMERGENCY CALL!!

Clearly State;

- What type of emergency (eg. Ambulance, fire/rescue etc)
- Where is the emergency (eg: Repair dock – BY 90 – tank no. 2(p))
- Guide the emergency crew to the location
- Responsible person or supervisor must be with victim



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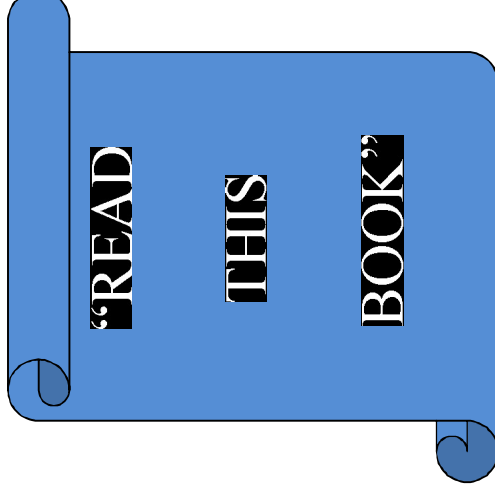
1. INTRODUCTION

Cochin Shipyard Limited – Mumbai Ship Repair Unit (CSL-MSRU) places utmost importance on the safety of its employees on rolls, Partners, subcontractors & their workmen and Owners/ Classification societies and will do its best to provide and maintain a safe and healthy working environment.

The responsibility for safety does not end with the safety personnel. Every employee in the yard from the Managerial Grade down to the Workman level has a definite role to play their work is safe.

This Safety hand book has been compiled by QHSE Department for the use of all personnel working or visiting inside the yard.

This book does not replace the detailed requirements, safety rules in vogue practiced by CSL-MSRU, for further clarification on HSE requirements, QHSE team will guide you to work safely.



2. QHSE POLICY



COCHIN SHIPYARD LIMITED **QUALITY, HEALTH, SAFETY AND ENVIRONMENTAL POLICY**

We are committed to provide ship building, ship repair services and training of marine engineers to the total satisfaction of customers. We undertake these in healthy & safe working conditions, an eco friendly environment and ensure continual improvement of management systems performance.

We endeavour to achieve the above by:-

- M**eeting or exceeding customer requirements.
- A**ssuring quality of the products and services.
- D**eveloping competent marine engineers.
- P**reventing occupational ill health and injuries.
- E**nsuring safe work sites.
- C**onserving natural resources.
- P**reventing / Minimising air, water and land pollution.
- H**andling and disposal of hazardous wastes safely.
- C**omplying with statutory & regulatory and other requirements.
- D**eveloping skills and motivating employees.

March 2016
Issue & Revision No. A02

Chairman & Managing Director

3. HSE MANAGEMENT SYSTEM IN CSL-MSRU

3.1 QHSE Statement

The long-term business success of CSL-MSRU depends on our ability to continuously its performance in providing assured quality of the ship repair services. Enhanced the occupational health of the employees, Environment & safety, by following best practices within the organization and sustained environmental protection for the benefit of the society.

3.2 Health & Safety

CSL-MSRU strives to conduct all its activities in such a way as to prevent injuries and ill health to our employees, contractors and visitors. CSL-MSRU record and investigate all the incidents occurring in the work place in order to identify the cause and take necessary measures within the ship yard. CSL-MSRU achieving this by identifying the high risk hazards, eliminating or if not at least reducing the risk involved to acceptable level. CSL-MSRU take necessary measures to educating all people involved in ship repair activities on health and safety practices within the work place and off the job safely.

3.3 Environment

CSL-MSRU commitment to the Mother Nature is demonstrated through the ongoing effort to reduce the adverse impact on the environment and reinforcing the positive contribution. This is achieved by identifying the significant environmental aspects related to its activities and products and developing programs and processes to reduce or control them with an aim of protecting the environment.

4. SAFETY INDUCTION

All entrants to CSL-MSRU are made aware about basic CSL-MSRU requirements with respect to Health, Safety, Environment & Emergency Response. This training is imparted to all newly inducted CSL-MSRU Employee/ Trainees/ Contractors workmen, who will be engaged in ship repair/ maintenance / construction activities on installations. The individual passes will be issued only

after successful completion the HSE induction training programme.

5. WORK AREAS IN CSL-MSRU

- a. Dry dock – 305 X 30 X 15 meters
- b. Berth- 5,6,7 & 8 (Indira Dock)
- c. Shops

6. RESTRICTED ENTRY AREAS IN CSL-MSRU

Due to potential hazards, entry restricted to authorized persons in the following areas.

- a. Substations
- b. Flammable gas storage area
- c. Barricade the locations with warnings as and when required.

7. GENERAL GUIDELINES

- 1) Every individual is responsible and obliged to "Suraka Keliye Rukem" for the non compliance of 12 Silent Safety Rules published by CSL and this is to be performed as per the guidelines mentioned towards an interdependent safety culture.
- 2) Smoking is strictly prohibited
- 3) Unauthorized use of cameras and mobile phones in CSL-MSRU is forbidden.
- 4) Parking of vehicle is only in approved parking locations.
- 5) Priority is for Material Movement and private vehicles shall make way for material movement.
- 6) The use or possession or influence of non-prescription drugs, alcohol and the abuse of substances is strictly prohibited in CSL-MSRU.
- 7) Speed Limit of vehicle in the yard is 20km/Hr
- 8) Fishing is not permitted in yard
- 9) Everyone should observe and obey regulatory signs.
- 10) Use of mobile phones is strictly prohibited while at work and driving including while cycling.
- 11) Horse play is not entertained in CSL-MSRU. (Example: Direct compressed air or gas on any person)
- 12) Hiring or bringing the materials / equipments / machinery in CSL-MSRU premises to be followed as per the guidelines, Refer entry management system for

Hiring or bringing the materials / equipments / machinery (Annexure 4 - Entry Checklist for equipment and tools)

8. HSE GUIDELINES

- 1) Usage of Safety Helmet with chin strap, safety shoe and cotton working dress are compulsory at CSL-MSRU work site, in addition suitable PPEs which are job specific are to be used. (refer CSL- PPE'S Matrix)
- 2) Risk assessments of non routine works are to be done before the work is started and control measures identified before commencement of work. These measures are to be approved by CSL-MSRU officer In charge and confirm by QHSE Dept. These control measures are to be communicated to the workers involved through tool box talks. These works to be performed through Job Safety Analysis (JSA)(Refer Annexure 2)
- 3) Workers and supervisors engaged in the works shall be competent.
- 4) Supervisor In charge is to Brief the hazards and preventive measure related to the work to be carried out during daily tool box talks.
- 5) People are to be engaged in work activities preferable in group only. In case a person has to work alone, the same shall be known to at least two persons who are working nearby.
- 6) Using Paint tin, CO₂ welding cable bobbin and oil drums as working platform is strictly prohibited.
- 7) Thinner is not to be store in beverage bottles
- 8) Ensure necessary state of mind (eg: lack of proper sleep) by having rest at periodic intervals during extended working hours especially during night time.

- 9) Adequate precautions should be taken during welding or gas cutting against hazards such as electric shocks, burns, fumes, explosion and arc eyes.
- 10) Adequate ventilation should be provided while working in confined spaces.
- 13) Check and ensure the adjacent areas compartments are free from flammable hazards and suitable protections are taken before commencing hot work.
- 14) Never start hot work - cutting the bottom/side shell of ship from outside to inside.
- 15) During hot work at elevated positions, precautions should be taken to prevent sparks or hot metal slag falling on to the people or material below / nearby and suitable barricade to be done at the ground.
- 16) Industrial Oxygen is not to be used for ventilation purpose.
- 17) Simultaneous operations of Hot work and painting are not to be carried out in the same area.
- 18) Ensure that no hot work should be carried out in the presence of hydrocarbon fumes.
- 19) All electrical equipments including AC welding machine should be properly earthed.
- 20) Ensure that ELCB/RCCB is fitted on all Welding Machines and extension boards.
- 21) Ensure cables have sufficient current carrying capacity that is used for all electrical equipments/tools.
- 22) Voltage Reducing Devices (VRD) (Safety relay) must be fitted on AC welding Machines.
- 23) Never Bypass Safety Relay on AC welding machines
- 24) Electrical extension switch boards are in metallic construction with ELCB/RCCB & and individual MCB. Only industrial type plug and socket to be used.
- 25) Only authorized persons are allowed to operate any machine/equipment / Switch boards. Unauthorized operation strictly prohibited. work on yard switch boards only allowed to CSL-MSRU electrical team.
- 26) Never tamper with machine guards.
- 27) Ensured that all portable equipments, welding transformers/rectifiers must be switched off after use.
- 28) 230 V hand lamps are not permitted in the yard. Use 110 V hand lamps in open area and 24 V hand lamps are to be uses in confined spaces.

- 29) 24 V Flame proof lamps shall be used inside tanks where while there was hydrocarbon presence and during painting in confined spaces.
- 30) Users are to daily inspect welding cables, cutting hoses and hand tools must be used in the yard.
- 31) All the temporary electrical connection including connection of welding sets, distribution box etc shall be made with the approval of yard electrical safety officer
- 32) Excavated materials should be put away from the edge of the excavated trench to avoid slopping of the excavated materials into the trench.
- 33) Never enter into tanks without permit. Refer Confined space entry procedure.
- 34) People working in tanks or pits must acquaint with the hazard present there and supervisor should advise his employees of the hazards present and precautions that are to be taken.
- 35) Open manholes and places people are liable to fall, those areas must be protected by strong barricade with intermediate railings. Man hole covers should be replaced promptly when work is suspended.
- 36) Jumping from moving vehicle is prohibited. They should wait until the vehicle stop before attempting to enter or leave.
- 37) Any dangerous situation affects the safety of an employee or his fellow employees shall be immediately brought to the notice of site supervisor or reported to CSL-MSRU QHSE team.
- 38) Standing under suspended loads is dangerous and is avoided.
- 39) Compressed air should not be used to clean dust in the clothing.
- 40) Any kind of Gas cylinders (empty/full) should be secured in upright position and away from direct sunlight.
- 41) Air hoses, welding cables, fuel hoses and electric cables should not be allowed to lie across walkways and area they should be suspended from overhead hooks.
- 42) Inflammable liquids must be handled in cans or containers meant for storing it and are to be stored in space having good ventilation. All such containers must be clearly labeled and warnings exhibited visibly.

- 43) Material Handling Equipments to crane tracks through the authorized route only.
- 44) If a threat to any person's life is observed, anybody can clear the threat and wait for authorized rescue persons for further actions. Rescue operations should be done by authorized persons only.
- 45) Everybody should be responsible for housekeeping at their work site.
- 46) Avoid activity/action that leads to air/water/soil pollution.
- 47) All the pressure line joints must be connected with whiplash/whip sock arrestor.
- 48) Gas management for cutting operations to be complied as the procedure (Annexure 3 – Gas management Procedure)

9. RESPONSIBILITIES OF CONTRACTORS

- 1) The Contractor before starting any work in the CSL-MSRU premises will be issued with these CSL-MSRU HSE guidelines and firm is expected to give a declaration that he receives one copy of the CSL-MSRU HSE guidelines and will comply with laid therein.
- 2) The contractor should convey the HSE guidelines to his workers and make them aware through tool box talks.
- 3) A responsible safety Incharge is to be designated by the firm for the activities. The details of the safety Incharge shall be communicated to QHSE team. He shall take a lead to ensure safe work environment for their work sites.
- 4) CSL-MSRU reserves its right to suspend work in the event of the contractor not complying with the HSE guide lines with regarding to HSE practices for which no claim of any kind will be entertained.
- 5) To ensure the safe conduct of safety operation a representative of the contractor should maintain appropriate contract with the CSL-MSRU officer-in-charge of the work as may be necessary to acquaint himself with any changed conditions of other matters relating to the HSE performance.
- 6) The contractor shall ensure that all his employees understand their obligations and they follow all CSL-MSRU HSE rules.
- 7) It is the responsibility of the sub-contractor firm to provide their employees with all the necessary PPE'S.

8) The contractor is also responsible for controlling the behavior of his personnel and must control their movement to and from the work site.

9) The HSE plan of Contractor is detailed in the procedure. (Annexure -5 - Refer HSE Plan of Contractor)

10) For further clarifications on HSE matters, Contact CSL-HSE Officer.

10. REPORTING OF INCIDENTS

All **injury incidents** to employees/ trainees/sub-contractors & their workmen/visitors/Ship staff occurring inside CSL-MSRU premises during the duty/after duty hours should be reported by supervisor to project manager.

CSL-MSRU personal injury reporting form (CSL / SMS / S&F/ Form 02) to be initiated by the officer in charge of the area and reach to QHSE dept within 24 hrs.

Format of HSE Observations (near miss, property damage, suggestions, violation etc) other than personnel injury incidents shall be available at HSE site cabins/offices.

11. PERMIT TO WORK SYSTEMS

The following activities must not commence unless obtaining issued work permits. (Refer PTW procedure annexure)

The type of work permits are:

- 1) ON BOARD SHIP
 - a) Hot work (Oxy Acetylene cutting/Welding On Board Ships)
 - b) Painting / Buffing in Confined spaces (Brush/Spray paintings in Tanks/Confined Spaces/other compartments)
 - c) Electrical Shut down (Works on Electrical installation/Equipments)
- 2) INSTALLATIONS
 - a) Work at Height/fragile roof
 - b) Excavation/Trenches Opening (any)
 - c) Excavation/Fuel or electrical trench opening)

3) TYPES OF WORK THAT REQUIRE A PTW (STATUTORY)

- a) Radiography (NDT tests using Radioactive materials, Any Expose of radio Active materials)
 - b) Electrical Shut Down (Works on Electrical installations/closed proximity of distribution system)
- ### 4) JSA FOR NON ROUTING WORKS
- a) Chemical cleaning – pipe line, tanks, equipment's and spaces etc.
 - b) STP cleaning
 - c) Tank testing by filling air(APT)
 - d) Pressure testing of AC lines and plants
 - e) Charging of Refrigerents
 - f) Puff filling
 - g) Use of liquid nitrogen
 - h) Simultaneous Operations (SIMOPS)
 - i) Fumigation
 - j) Any Other works directed by the yard QHSE team

(Refer Annexure 2 -JSA)

12. PERSONAL PROTECTIVE EQUIPMENTS

Employees are responsible to wear appropriate PPE'S associated with hazards they are exposed to. All PPE'S must comply with approved Indian or international standards e.g: ISI, BS, DIN, ANSI or CE

Basic PPE'S requirement at CSL-MSRU Site.

- 1) Safety Helmet
- 2) Safety Shoes
- 3) Cotton Working dress
- 4) Safety Glasses or face shield or goggles.(appropriate to work)
- 5) Hand gloves appropriate to work should be worn
- 6) While welding PPE's like apron, gauntlet, leg guard, face shield should be worn
- 7) While grinding helmet with face shield should be worn
- 8) For further information refer PPE'S Matrix

13. HOUSE KEEPING

Good housekeeping is an important part of HSE management system; it is the responsibility of all personnel to maintain the highest possible standard of housekeeping in their work area.

This can be maintained by:

- a. Ensuring that the work place is tidy before commencing the task and at the end of a work shift or completion of the task.
- b. Ensure obstruction free access to all work places.
- c. All the waste generated during project taken back out from CSL-MSRU premises.
- d. Items shall be stored in such a way that it is easily identifiable and traceable.
- e. Suitable control measures shall be ensured while storing of flammable materials and chemicals.
- f. The MSDS (Material Safety Data Sheet) of each chemical are to be displayed and known to all working there. Appropriate first aid and fire fighting measure are to be kept stand by in case of spillage on people handling it or during any fire.



14. WELDING & CUTTING

All welding and cutting operations must be carried out by qualified personnel while working inside the yard. While working onboard the vessel the work should be in accordance with the conditions specified in the work permit. The principal hazards associated with welding and cutting operations are

- Fire
- Explosions
- Burrs
- Eye injury
- Respiratory disease.

Additional hazards which may result from arc welding are electric shock, ultra violet radiation.

Whenever, welding or cutting operations are being carried out, flammable materials should be removed from the area, where ever possible, and covered with a wetted fire retardant cloth should be placed in case the flammable materials cannot be removed.

14.1 Electric Arc welding

Check equipment thoroughly, all welding cables shall be fully insulated and periodically check for cuts that could accidentally "short" when in contact with an earthed section of any structure. Do not lay cables in water.

When connecting cable lengths together, only approved and insulated connectors shall be used. All cables and connectors must be of adequate current carrying capacity to perform the task.

Avoid lengthy cables if possible and lay between wooden blocks, or cover or hang the cables on hooks or stands to prevent tripping hazard. Only electrode holders specifically designated and fully insulated, and rated to handle the maximum current required by the task, should be used.

The arc produces Ultra-violet (UV) radiation. Exposure of UV radiation leads to reddening of the skin and irritation. The eyes are very sensitive to UV radiation, the effect varying from temporary to permanent damage of the retina.

Ensure VRDs (Safety Relay) & ELCB/RCCB are fitted on the AC welding transformers

All welders must wear the appropriate protective clothing, Gauntlet type welding gloves, leather aprons, leggings and correct shaded filter glass to suit the type of work and also all welding cable must be tested every 6 months.

14.2 Cutting Operations

Only proprietary fittings should be used on flexible gas line. Hoses must be fitted to the equipment using crimped fastening by double ear end clip or crimping and **not jubilee clips** which is prohibited by CSI-MSRU. The color code for Oxygen and acetylene hoses are black and red color respectively. While checking for leaks, only "Soapy water" to be used. Only Acetylene and Oxygen gases are used for cutting operations.

While working with the gas cylinders flash back arrestors must be fitted at regulator and torch end, and non-return valve must be fitted between the hose and cutting equipment while working with the gas cylinders. Suitable ranged and Calibrated pressure gauges shall be fitted on at gas regulator area to check the cylinder and hose side pressure.



All cutting equipment must be removed from the vessels or enclosed spaces to open spaces/weather deck when not in use for a prolonged period of time ie, during breaks or end

of the shift. This will prevent the build-up of gas, if there are any minute leaks.

If the atmosphere becomes oxygen enriched due to leakage, the work area must be purged with fresh air and all clothing/flammable materials must be well ventilated to prevent the risk of spontaneous combustion. Gas hoses shall be disconnected from the manifold/cylinder for the stoppage of work on the day and to be locked at manifold or cylinder side.

All the gas hose must be tested every 6 months. Only oxygen and acetylene gas's are allowed inside the CSL-MSRU premises.

14.3 Gas Cylinders

Before use, all gas cylinders must be fixed and secured in an upright position, and placed at a safe distance from any heat source.

When the cylinders are not in use, the valves must be closed. Prior to fitting the regulator, the valve should be opened slightly to blow away any dust or grit from the valve.

Oxygen regulator valves or fittings should be free of Oil and grease to prevent spontaneous combustion in the case of any oxygen leakage.

Cylinders should be kept and moved in purpose built trolleys, when attempting to move cylinders not mounted on trolleys, the regulators and hose must be detached.

If cylinders are to be lifted by crane, they should be secured in a special carrier. On no account they should be lifted by holding the valve as they are not designed to take the stress and no attempt must be made to lift them with chains, ropes or slings as there are chances for it to slip.

Oxygen cylinders and fuel gas cylinders must be stored well apart, at least 6 meters in open space, to prevent an explosive mixture forming from any leakage.

All fuel gases (Acetylene) whether full or empty, must be stored upright and not in a lying position they should be stored separately.

The cylinders should be shielded from direct sun light, or other heat source, to avoid the buildup of excess internal pressure. Valid certificates of cylinders shall be produced while bringing the cylinders to be yard.

15 SURFACE PREPARATION

Surface preparation includes activities such as buffing, grinding etc. The control measures for these activities are discussed in the power tools section in this book.

Surface preparation is also done by blasting using iron shots, copper slag or high pressured water (hydro blasting). Suitable blasting suites, hoods with coolant tubes shall be used while doing such operation. Barricade with warnings to be erected while blasting operations are being carried out.

16 PAINTING

Smoking or any hot working (welding/gas cutting etc) in the vicinity of painting activity is prohibited. Electrical equipments and fittings in the vicinity should be flame proof. For maintaining the air current, blowers should be used at one end and exhaust blowers at the other end.

While painting inside confined spaces, workers should wear air lines respirators with close fitting rubber masks and the equipments should be of the type that the user himself is able to regulate the air pressure.

A worker inside the confined space should be aided by one helper who could be contacted in case of an emergency through a suitable arrangement.

17 WORKING AT HEIGHTS

A suitable means of access and egress must be provided for all working places which cannot be reached from ground level. All work places that are 2 meters or above and does not have a proper working platform, scaffolding are to be made available. All platform structures / scaffolding shall be only erected, altered or dismantled by the authorized scaffolder. The certified scaffolding will have a green tag near the access and if it is not certified, red tag is placed

near the access. Certification of scaffolding done by QHSE Team. Scaffolding requirements are



Red Tag

The key points to be observed when erecting scaffolding are.

- The ground must be firm enough to carry the weight of the scaffold, and the load the scaffolding will be carrying.
- There should not be any gaps in the working platform
- Hand rails with mid rails at 1 meter and half meter height should be ensured for the working platform
- Access ladders shall be provided to reach the working platform. Access ladders are to be provided zig zag manner if the height is more than 2 meter.
- Toe boards must be provided on the working platform.
- Scaffolding materials must be inspected by CSL-MSRU QHSE team and it shall be made of MS.
- Secondary Platform must be placed if the scaffolding height more than 6 meters.
- Scaffolding validity is 15 days from the issue date after 15 days re inspection must be requires.



Green tag

18 WORKING OVER WATER

Where work takes place over or near water, the following precautions shall be ensured.

- Suitable hand rails shall be ensured to prevent fall of persons into water also full body harness must be worn
- Safety net shall be used wherever practicable.
- Buoyancy aids shall be made available near the work area.

19 CONFINED SPACE

The term "Confined spaces" covers a great variety of workplaces which have limited access and inadequate ventilation. Confined spaces are therefore potentially dangerous places to work because workers may get trapped in hazardous concentration of toxic or flammable gases or vapors. Daily inspection of confined spaces to be done before commencing the operation on the day or shift and details are available at access of the space. Continuous monitoring of the space is required if situation warrants. (Refer CSL Confined space entry procedure for details)

Confined space is also liable to become deficient in oxygen. Very often the dangerous atmosphere can occur in confined space as a result of the work being done, for instance, welding, painting, and flame-cutting or the use of adhesives and solvents.

17.1 Full body Harness

When it is necessary to work in temporary work platform areas where it is liable to fall a full body harness shall be worn. The full body harness should be anchored on a rigid structure, and length of the lanyard should be minimized in such a way that the fall height will be minimal. Anchoring hook shall be of scaffold hook.



The following guidelines to follow while entering into confined spaces.

- Ensure adequate ventilation prior to entry and constant circulation while personnel are inside. Flameproof blowers shall be used where containing hydrocarbons in the spaces.
- Use only 24V hand lamps while working in confined spaces.
- Man Entry and Hot work certificates to be obtained from Petroleum and Safety Organization (PESO) while entry or do hot work in fuel tanks. (Refer CSL Confined space entry procedure)

NO ENTRY



MAN ENTRY PERMITTED



HOT WORK PERMITTED



20 HAND TOOLS AND POWER TOOLS

All personnel using hand or power tools shall be made aware of any dangers which may arise during their use. Adequate supervision must be provided to ensure that the use of such tools is correct and safely performed.



20.1 Hand tools

Hand tools are among the simplest of our work aids and the hazards associated with them are simple and well understood. Because of this simplicity, the safety precautions associated with them are often ignored or forgotten, to the users subsequent regret.

The main cause of injury is the general misuse of tools, the use of unsuitable or poorly maintained tool and improper storage. Injuries can of course be caused by breakage, it is therefore essential that only tools manufactured from the best materials by reputable tool companies are used. Misuse of tools causes many problems, the use of screwdrivers as chisels, spanners to hammer nails, and pliers to screw up or unscrew nuts are prime examples of this common misuse.



When working at elevated location, all tools should be placed in a tool box to prevent loose tools being dropped from the heights. Where there is a risk of injury from flying objects such as striking two hard surfaces together, e.g. hammer, chisel, punch or similar articles, better to wear an eye protection.

20.1.1 Hammer

The faces of hammers should be kept clean and free from grease, and be of sound condition (not pitted or broken edged) and in good shape (Not mushroomed)
Wooden shafts must be of the correct size and securely fixed to the hammer head with fitting wedges – They must be kept from oil and grease and undamaged. Crack or split shafts must not be used.

20.1.2 Chisels and punches

There are several types of cold chisels and punches. These must be of good quality materials, properly maintained and inspected, especially for mushrooming of head. All chisels and punches should be dressed frequently to maintain a safe profile.

Cutting edges should be kept sharp to permit accurate working and to avoid the hazards arising from unnecessary hammer striking.

20.1.3Files

A file must never be used without a correct fitting handle; this is to prevent the tang from causing injury to the hand.

Oil must never be applied to files; they must never be struck by other tools as they are brittle and will shatter. To maintain files when clogged with filings clean out the teeth with a file card or fine wire brush.

20.1.4Screw Drivers

Screwdrivers are probably the most common and abused of all the hand tools. When using a screwdriver, make sure that the blade fits the slot in the screw properly. Too large or too small a blade will damage the screw, and not work efficiently. Screw driver blades must be kept square and have a patten to the end.

The shanks are not designed to withstand twisting strain from pliers or grips, which are often mistakenly applied to obtain additional leverage on a stubborn screw. Never expose the blade to excessive heat as this alters the temper of the steel making it too soft or too brittle for this job.

Do not use screwdrivers as scrapers, chisels or levers and the handles may split if hammered. Serious puncture wounds can be sustained as the result of carrying screwdrivers in the pocket of clothing or coveralls.

20.1.5Hacksaws

When using hacksaws, select the correct blades for the work to be carried out. Thick materials require coarse blades to allow chippings to escape. Thin hard materials require a fine blade. Always ensure that at least three consecutive teeth are in contact with the work.

The blade should always be correctly tensioned in the frame, taut but not over tensioned. Use a steady, forward cutting

stroke with just sufficient pressure to cut through the material.

After use when the hacksaw is to be stored, the tension on the blade should be released, and re-tensioned before future use.

20.1.6 Spanners and wrenches

Always select a spanner which exactly fits the nut or bolt head, never use packing pieces to make the spanner fit as they may slip, causing injury, and also damage the hexagonal contour of the nut or bolt head.

Open-ended spanners should not be tilted. Ring spanners are probably the strongest if they can be used in a particular situation, less chance of slipping.

Pieces of pipe or similar device must not be placed over the end of spanners as extensions to increase the torque.

When using adjustable wrenches, fit tightly against the faces of the nut or bolt head and apply the torque in the direction of the fixed jaw to prevent the spanner from opening.

Spanners and wrenches should not be exposed to excessive heat, or be ground in order to alter their shape as this may ruin the temper of the working parts.

Periodically inspect all spanners and wrenches for any signs of damage or wear. All worn or damaged tools should be discarded or where necessary, moving parts replaced.

20.2 Powered Portable Tools

The efficient and safe use of all powered tools can come only through proper maintenance and from adequate supervision. The power from this type of equipment is usually supplied from Compressed air or electricity.

20.2.1 Pneumatic Tools

All compressed air hose must have standard hose couplings, never use jubilee clips or similar fittings. Tools required clean air and correct lubrication for smooth functioning of the same.

20.2.2 Electrical Tools

All electrical hand tools shall be of double insulated and fiber body type. Portable electric power tools must not be used if any defect is suspected or any damage apparent. Repair and routine maintenance shall be carried out by trained and qualified electricians.

Only chuck keys of the correct type shall be used to operate chucks. Operators shall ensure that the key is removed from the chuck before operating the equipment and ideally, clipped to the cable to avoid improvisation.

20.2.3 Powdered Disc Grinders

Powered disc grinders can be air or electrically driven. General operation applies equally to both types. The security of the disc and condition must be checked before attempting to use. Care must be taken to avoid knocking or sudden impact of the disc to prevent damage and possible disintegration of the disc. The RPM of the grinding machine should be lower than the RPM of the grinding disk

Disc that are chipped, out of true or out of adjustment must never be used. Apply the disc to the work piece and do not use excessive pressure. Allow the disc to come a stop before laying the grinder down. Impact protection must be worn. Sparks from the disc may ignite flammable materials, or cause injury to personnel in the area.

20.2.4 Compressed Air

Extreme caution must be used when using compressed air, as it is delivered at high pressure. Iron dust and rust particles may be present in compressed air. If it enters the body, it can rupture internal organs and cause serious injury and even death.

Do not attempt to clean off coveralls or clothing as it can force harmful particles through the skin.

21 WORKING ON MACHINE TOOLS AND MACHINERIES

While working with Machine tools and machineries the following precautions should be taken.

1. Authorized persons should be allowed to use a machine tools and machineries
2. Suitable eye & hand protections shall be worn
3. Ensure sufficient illumination at the point of operation
4. In wood planing machines, Push sticks and push blocks should be used for guiding the wood to the planing machines
5. Stand at a safe distance from the machineries to protect the operator from kick backs, flying materials, moving machinery parts etc.
6. Switch off the machine after use
7. Ensure machinery guards in place
8. Ensure lubrication oil or coolants are not spillover near and on the machines.

22 HANDLING ELECTRICITY

The main hazards in electrical works are electrocution, burns, fire and explosion.

1. All wires must be treated as live wires until it is positively known that they are dead
2. No repairs are to be made to electrical equipments by anyone except qualified authorized electricians.
3. Never use an electric light extension cord unless it has an approved insulated handle and standard lamp guard.
4. All portable equipments must be grounded
5. Always wear rubber gloves when working around circuits of 110 volts or above
6. Do not overload or overuse circuits
7. Before starting any repair works or resuming the supply after the repair on electrical installations, Clearance from proper authority should be taken.

8. Before resuming the power supply it should be ensured that the grounding of the line or equipment at the work spot has been removed and all men are off the line or equipment
9. If any one comes in contact with live wires or cable and becomes unable to release his grip on the wires, do not attempt to pull him off with bare hands. Shut off the current and protect the hands with rubber gloves or if they are not available, use thick fold of dry clothes to cover hands before attempting to release the victim. If wires are directly on top of the victim use a dry stalk to remove them

23 MANUAL HANDLING

Manual handling is a process where the person is prime source of power in moving material and equipment. It includes lifting, piling, pushing, carrying or moving. Correct manual lifting and handling can help prevent strains and backaches. Once your back has been injured, that weakness can remain with you for the rest of your life.

To avoid injury, follow these guidelines:

Asses the weight of the load, get help if it is beyond your capacity use mechanical or hydraulic equipment.

Size up the job make sure you have a clear path way to where the load is going. Look for nails or splitters and wear gloves where appropriate.

Adopt the correct stance stand close to the object with your feet apart, giving a balanced position. One foot advance of the other, pointing in the direction you intend to move.

Bend your knees to a crouch position, keeping your chin tucked in and your back straight (not necessarily vertical)

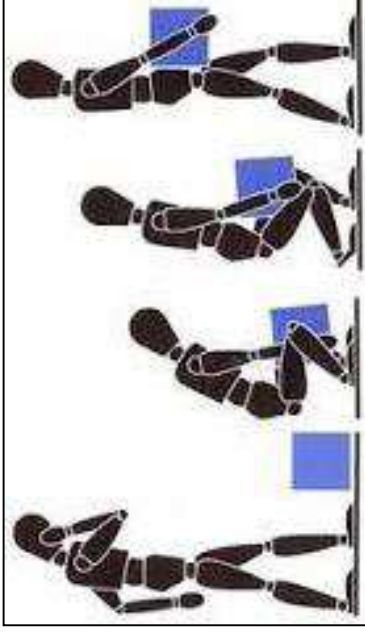
Take a firm grip with the palm and roots of the fingers and thumb, keeping your arms as close to the body as

possible. Keep your shoulders level and face the direction of travel.

Lift with your leg muscles, not back muscles. Carry out the lifting movements smoothly, do not jerk or twits.

Utilize body weight to create momentum and forward with the load.

Use the reverse procedure when setting down the load.



24 LIFTING OPERATIONS

Lifting machineries such as cranes, winches hoists and other lifting tools and tackles include (wire rope sling, web sling, D Shackles, eye bolts chain block etc.) are widely being used in CSL-MSRU.

Lifting must, by its very nature, be regarded as a hazardous operation. The improper usage and inadequate maintenance of lifting tools and machineries may lead to serious consequence to life and property.

Operational Guide lines are:

1. Only authorized, competent persons are allowed to operate cranes.

2. Crane operators must only take instruction from designated rigger.
3. At no time should the crane be left unattended, even for short periods, unless all loads have been removed, the power off and brakes are to be applied.
4. Crane and Transporter (Commeto) within CSL-MSRU area must be accompanied by a rigger or banks men, they will guide the movements safely.
5. Do not use rigging and slinging unless you have been trained and instructed to do so.
6. Use correct lifting hooks – fitted with safety latches or shaped to prevent accidental displacement of slings.
7. Position the lifting hook over the load as to prevent the load swinging when it is raised.
8. Do not tie a knot in a chain to make it shorter, or attempt to drag it from under a load.
9. Check wire ropes for kinks, signs of wear and broken wires.
10. All lifting equipment must have valid test certificates issued by competent person.
11. All lifting equipment must be test once in a year.



Wire rope - Lifting chart

Wire Rope Diameter		Single leg Sling		Two legged sling with different Angles				
Inch	m.m	KG.	KG.	0°	30°	40°	50°	120°
5/16	8	500	1000	1000	1040	970	700	530
5/8	9	770	1540	1540	1590	1340	1090	770
	10	900	1800	1800	1750	1500	1280	900
7/16	11	1050	2000	2000	2010	1800	1470	1050
	12	1180	2300	2300	2300	2000	1680	1180
1/2	13	1350	2700	2700	2700	2300	1900	1350
9/16	14	1500	3000	3000	3000	2500	2000	1500
5/8	15	1700	3400	3400	3400	2800	2200	1700
11/16	17	2570	5140	4940	4470	3650	2570	1700
	18	2820	5640	5440	4970	4000	2820	1800
3/4	19	3050	6100	5920	5450	4300	3050	1900
13/16	21	3570	7140	6920	6450	5100	3570	2100
7/8	22	4100	8200	8000	7530	6100	4100	2200
	23	4400	8800	8600	8130	6500	4400	2300
15/16	24	4700	9400	9200	8730	7000	4700	2400
1	25	5170	10340	10140	9670	7700	5170	2500
	26	5850	11700	11500	11030	8810	5850	2600
1.1/16	27	6250	12500	12300	11830	9510	6250	2700
1.3/8	29	6700	13400	13200	12730	10200	6700	2900
	30	7200	14400	14200	13730	11000	7200	3000
1.1/4	32	8380	16760	16560	16090	12900	8380	3200
	33	9250	18500	18300	17830	14100	9250	3300
	34	9650	19300	19100	18630	14700	9650	3400
1.3/8	35	10170	20340	19720	19250	15400	10170	3500
	36	10730	21460	20860	20390	16200	10730	3600
1.1/2	38	12100	24200	23600	23130	17200	12100	3800
	39	12780	25500	24900	24430	18100	12780	3900
	40	13470	26940	26340	25870	19100	13470	4000
1.5/8	41	14220	28440	27840	27370	20200	14220	4100
	42	14980	29960	29360	28890	21300	14980	4200
	43	15750	31500	30900	30430	22400	15750	4300
1.5/4	44	16520	33040	32440	31970	23500	16520	4400
	46	17620	35240	34640	34170	25000	17620	4600
1.7/8	48	18970	37940	37340	36870	26500	18970	4800
2	51	21520	43040	42440	41970	30000	21520	5100
	53	22870	45740	45140	44670	32000	22870	5300
2.1/8	54	24400	48800	48200	47730	34000	24400	5400
2.1/4	57	27270	54540	53940	53470	38000	27270	5700
	59	28280	56560	55960	55490	40000	28280	5900
2.3/8	61	30320	60640	60040	59570	42000	30320	6100
	63	32520	65040	64440	63970	44000	32520	6300
2.1/2	64	33700	67400	66800	66330	46000	33700	6400
	65	34700	69400	68800	68330	47000	34700	6500
2.5/8	67	37080	74160	73560	73090	49000	37080	6700
	69	39450	78900	78300	77830	51000	39450	6900
2.3/4	70	40820	81640	81040	80570	52000	40820	7000
	71	42000	84000	83400	82930	53000	42000	7100
2.7/8	73	44700	89400	88800	88330	55000	44700	7300
	75	47250	94500	93900	93430	57000	47250	7500
3	76	48600	97200	96600	96130	58000	48600	7600
	77	49800	99600	99000	98530	59000	49800	7700
3.1/8	79	52700	105400	104800	104330	61000	52700	7900
	81	54870	109700	109100	108630	63000	54870	8100
3.1/4	83	56900	113800	113200	112730	65000	56900	8300

Web sling colour chart

Color	WLL (Straight Lift)
Pinklet	1 ton
Green	3 tons
Yellow	3 tons
Grey	4 tons
Red	5 tons
Brown	6 tons
Blue	8 tons
Orange	10 tons or above

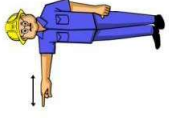

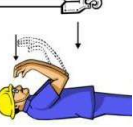
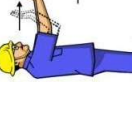
Web sling lifting chart

WLL	Lifting method	SWL IN KG WITH ONE WEBBING SLING				SWL IN KG WITH TWO WEBBING SLINGS				
		straight	choke	up to 90°	up to 45°	straight 90°	choke 90°	straight 45°	choke 45°	
Art. No.	Factor	1.0	0.8	2.0	1.4	1.0	1.4	1.12	1.0	0.8
HFS01 1000kg	purple	1000	800	2000	1400	1000	1400	1120	1000	800
HFS02 2000kg	green	2000	1600	4000	2800	2000	2800	2240	2000	1600
HFS03 3000kg	yellow	3000	2400	6000	4200	3000	4200	3360	3000	2400
HFS04 4000kg	grey	4000	3200	8000	5600	4000	5600	4480	4000	3200
HFS05 5000kg	red	5000	4000	10000	7000	5000	7000	5600	5000	4000
HFS06 6000kg	brown	6000	4800	12000	8400	6000	8400	6720	6000	4800
HFS08 8000kg	blue	8000	6400	16000	11200	8000	11200	8960	8000	6400
HFS010 10000kg	orange	10000	8000	20000	14000	10000	14000	11200	10000	8000

25. BASIC RIGGING SIGNALS, TACKLES AND METHODS

COMMON			
Hoist up		Hoist lower	
Hoist up - slow		Hoist lower - slow	
Stop - motion is finished		DOG everything - pause the motion	
Emergency stop -			

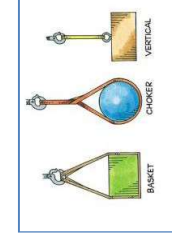
EOT cranes

 <p>Long travel - Right</p>	 <p>Long travel - Left</p>	 <p>Cross travel - Towards operator</p>	 <p>Cross travel - Away from operator</p>
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Bow and D shackle

Wire rope slings with thimble



Slinging Methods



Web sling

26. DOCKING & UNDOCKING

Docking and undocking of the ship is one of the major activities in the yard. The following precautions are to be taken.

1. Docking and Undocking operations should be done only with the guidance of the dock Master, pilots or authorized person from CSL-MSRU.
2. Pre requisite checklist to be filled cleared by CSL-MSRU project manager.
3. Tugs or suitable supports should be ensured
4. Tide level, List and Trim of the vessel level, docking plan and water currents to be taken care of while planning the docking & undocking
5. Gangways shall be placed in a safe manner after the positioning the vessel
6. Good condition of mooring ropes shall be ensured
7. Suitable floating life vest to be worn if any chance of fall into water bodies.
8. Docking and undocking checklist must me follow for each project.

27. SLIPS, TRIPS AND FALLS

A large portion of injuries at work are caused by slips, trips and falls. Whether on the same level or from height, fall can occur in all kinds of work places and under a range of different conditions.

Some of the common reasons for Slips, Trips and fall are:

1. Poor flooring
2. Unsuitable foot wear
3. Slippery surfaces
4. Obstruction in walk ways
5. Poor lighting or restricted vision

6. Undue care and attention.

The biggest contribution you can make in preventing such accidents is by keeping your work-area clean, tidy and free from obstructions.

Also:

1. Use proper routes and walkways. Avoid short cuts
2. Make sure that any temporary opening in walkways is secularly fenced off. On completion of work, replace grating and covers securely.
3. Report to your immediate supervisor whether there are damaged or obstructions on floor surfaces, lack of handrails and fencing as well as inadequate illuminated areas
4. Correct use of ladders – firm level surface, secured at the top and extended beyond the step-off point or adequate separate handhold.



28.FIRE

a. Basic chemistry of fire

Any fire, once it starts, will continue to burn as long as there is something to burn and oxygen is present. There must be reasons for a fire to start and the way it burns. There are

reasons for certain substances to be more or less flammable than the others.

b. The nature of fire(combustion)

The combination of a substance with oxygen is called an oxidation process. It is a chemical process. Energy is given off during this process, usually in the form of heat. The oxidation process in case of a fire or combustion is rapid. The burning substance combines with oxygen at a very fast and high rate. Production of energy in the form, of heat and light is rapid, so we can feel the heat and see the light as flames.

c. Elements of fire

The essential requirements of a sustainable fire (combustion) are the presence of three elements, i.e. FUEL, HEAT and supply of free OXYGEN, usually in air (formation of fire triangle).

28.1 Fire Prevention

Prevention is the best form of defense. Fires can be prevented by following some simple rules.

1. **Don't** let rubbish or items accumulate in one area, especially under stairs.
2. **Don't** overload electrical outlet sockets
3. **Don't** use make shift wiring extensions
4. Hot works carried out onboard vessel only through Permit To Work.
5. Lighting of incense and candle is not allowed inside your room.
6. **Don't** store any flammable items inside the room unless it is meant for.
7. **Don't** hang clothes to electrical equipments such as fans, AC and in the corridors. Always keep Entry/exit clear.
8. Suitably designed equipment and its installation (intrinsic safety).
9. Inspection and maintenance of equipment and electric circuits.
10. Maintaining and properly using portable equipment and flexible cables.
11. Adopting safe working practices and procedures

28.2 Discovery of fire

On discovering of fire, your prompt action could save lives:

- Warn all personal in the area by fire, fire, fire
- Use first aid fire fighting appliances in that area.
- If it is not possible, call CSL-MSRU fire service.

Remember: - Firefighting equipment must not be tampered with and must be kept clear of all obstruction

29.GENERAL PERSONAL FACTORS LEAD AN INCIDENT

The following personal factors are to be taken care of and they should be more vigilant while on duty, otherwise it may lead to incidents.

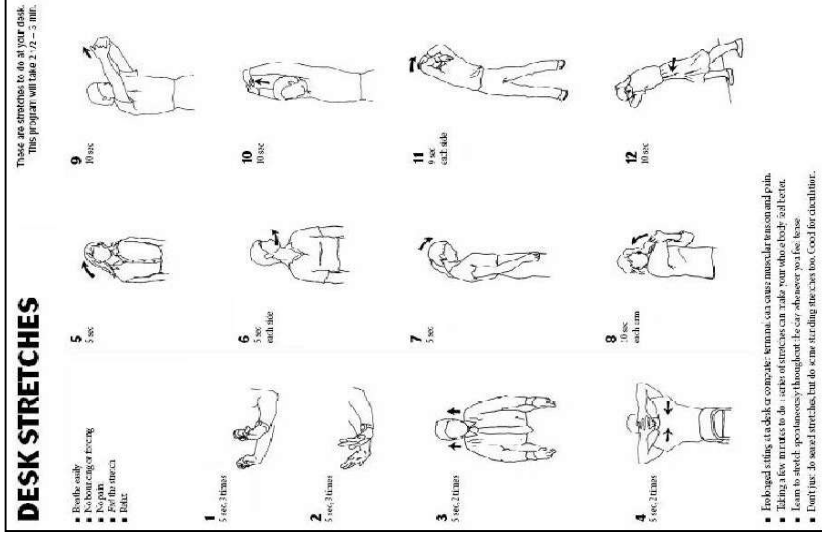
1. Ensure sound sleep.
2. Eat sufficient breakfast.
3. Avoid over eating
4. Sickness suffered by any family member or near & dear ones(Frustration)
5. Acute financial crisis
6. Quarrel with others (Emotional disturbance)
7. Over confidence
8. Influence of medications
9. Fatigue due to lack of rest

30.OFFICE SAFETY

1. Don't stand and talk in front of closed doors which may open suddenly.
2. Walk cautiously around blind corners
3. Sit squarely on office chairs, and not on the edge of them.
4. Running at any time in an office may result in injury from slipping, tripping or collision. Avoid running in offices.
5. Walk slowly and cautiously up and down stairs. Use hand rail where possible.

6. The gummed strips on envelopes should not be moistened with tongue.
7. Office employees wearing high heeled shoes shall exercise extra caution to prevent falls.
8. Don't use lift in case of fire.
9. While lift break down, shout for help or make call to CSL-MSRU Emergency number for help

Desk stretch exercise for continuous use of computers



31.WASTE MANAGEMENT

A waste is a material which is discarded or intended to be discarded.

Waste identification and classification

Type of Wastes are classified in CSL-MSRU activities

1. Waste Oil/Oil Sludge
2. Oil soaked cotton waste
3. Used copper slag
4. Empty paint drums
5. Zinc Anodes
6. Used Batteries
7. Electronic Waste
8. Steel Scrap
9. Industrial Waste
10. Cut Cable

Waste disposal policy

1. No dumping of items in the yard premises and same shall be taken out from the yard as per the QHSE requirement.
2. Respected vendor /agency is the responsible to dispose the waste according to state statutory requirements.

32.OCCUPATIONAL HEALTH

Occupational health deals with man (both physically and mentally) in relation to his work and work environment. The employees are exposed to various levels of health hazards, life style diseases and the various physical and chemical hazards. Proper awareness about the health hazards is a required for an employee to lead a healthy life

The various measures to be taken for reducing Health hazards are:

1. Employees who are involved in handling hazardous chemical, gases and other substances should be made aware about its

health hazards and the precautions to be taken in handling these hazards.

2. The MSDS of the chemical being handled should be made available to the workers.
3. Statutory Periodical health checkups should be done by the company
4. Non statutory health check up should be done at least once in two years in order to detect Life style diseases such as High Cholesterol, Diabetics, Blood pressure, allergies to any chemical or substances etc
5. Employees should maintain all his medical records and should be made available in case of an emergency .
6. Stress of employees that is either job related or caused by various personal factors also can lead to accidents and subject the victim to various diseases.

33.FIRST AID

First aid is the immediate emergency care / treatment given to the victim of an accident or sudden illness, till medical aid is available.

Aims of first aid

- a) To preserve / save life
- b) To prevent further injury & worsening of casualty's condition
- c) To promote recovery

Ten Commandments for first aiders

1. reach the accident spot quickly
2. be calm and speedy
3. ensure safety of the place
4. look for life threatening conditions first
5. give FA in the order of priority
6. reassure the casualty if conscious
7. clear the crowd
8. do not leave the casualty alone
9. arrange for safe transport
10. do not attempt too much / do no harm

Look for condition of the victim in the following order

1. is the victim conscious
2. is the victim breathing
3. is there severe bleeding
4. is the victim in shock
5. is the victim in pain

33.1. Control of bleeding

1. Apply direct pressure over the wound
2. Cover wound with sterile dressing and bandage firmly
3. Raise the injured part above level of heart
4. Apply pressure over pressure points
5. Immobilize the injured part
6. Look for signs of shock
7. Send to hospital in lying down position

33.2 Fracture

Suspect fracture when there is tenderness, swelling, deformity, abnormal movements etc.

1. Control any bleeding and cover any wounds
2. Do not move the casualty unless life is endangered
3. Immobilize the injured area as well as the joints above and below using suitable splints
4. Call for ambulance to send to hospital

33.3 Burns

1. If clothing on fire—stop, drop and roll
2. Cool the burnt area by holding under cold running water for at least 10 minutes
3. Do not apply ointments, oils or any other substance
4. Cover the wound with sterile non-sticky dressing
5. Call for ambulance

33.4 Eye injuries

1. Removal of foreign body should not be attempted
2. Do not apply ointment or oil
3. Apply sterile pad and loose bandage
4. Send to hospital

33. 5 Chemical burns of the eye

1. Immediate washing of the eye with clean water continuously for at least 20 minutes
2. Apply sterile pad and bandage
3. Send to hospital.

33.6. Suffocation

1. Remove the casualty from the site of accident to safe area to get fresh air
2. Clear the airway
3. Restore breathing by artificial respiration
4. Send to hospital

33.7 Electric shock

1. do not touch the casualty while he is still in contact with live source
2. switch off the power immediately
3. do not attempt first aid until the contact has been broken
4. check response and breathing
5. give cardiopulmonary resuscitation(CPR) if the casualty is unconscious and is not breathing

33.8 Unconsciousness

1. Check response
2. If no response look for breathing
3. Start giving CPR if unresponsive and is not breathing
4. If breathing is normal , keep the casualty in recovery position till he gets medical attention

33.9 Chest pain

1. If casualty is conscious, keep him in half sitting position and advise to take rest
2. If unconscious, check D.R.A.B.C (Dangerous, Response, Airway, Breathing and Circulation) and start giving CPR if necessary
Call for ambulance and continue CPR till he gets medical help or show signs of life.

33. 10 Cardiopulmonary Resuscitation (CPR)

CPR is the emergency first aid procedure done when the casualty is unconscious and not breathing.

CPR maintains flow of oxygenated blood to the brain and the heart, thereby delay tissue damage, so that more definite treatment will be effective

If you see a motionless person, follow the steps below

1. Assess the area for any safety hazards before proceeding
2. Check the response by shaking the shoulders and calling loudly
3. If there is no response, open the airway by head tilt and chin lift
4. Check for breathing by looking rise and fall of chest wall for 5 to 10 seconds
5. If there is no breathing start giving CPR

CPR consists of artificial circulation & artificial respiration given at regular sequence. CPR is effect only if performed within 4-5minutes of the stoppage of blood flow. CPR sequence of steps is now

C-A-B

C- Chest compression

A- Airway

B- Breathing

Chest compression

1. Place the heel of one hand at the centre of lower part of chest and place the other hand on top of the first.
2. Begin chest compression – push hard and push fast
3. The rate of compression should be at least 100 per minute.
4. Depress the chest at least 2 inches(5 cms) and allow full recoil of chest wall before next compression
5. Give 30 compressions at one stretch
- 6.

Air way opening

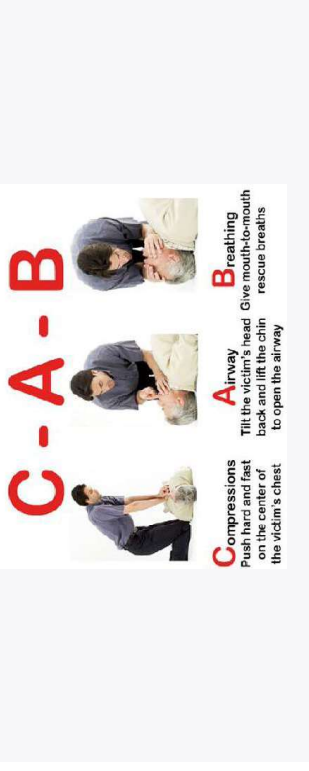
1. Open airway by head tilt and chin lift
2. Check breathing by watching rise and fall of chest wall for 5 to 10 seconds.

Breathing

1. If the casualty is not breathing, give two rescue breaths in two seconds.

2. Continue CPR by giving 30 chest compressions followed by 2 rescue breaths

Continue CPR until there are signs of life or until emergency medical personnel take over



34.COLOUR CODING WITH TYPES OF SERVICE MANIFOLDS/PIPE LINES & ELECTRICAL DISTRIBUTION BOXES

CONSEQUENCE MANAGEMENT

The purpose of consequent Management is to provide a fair and consistent approach to dealing with every ones conduct, behavior and/or performance falls below acceptable standards or regulatory requirements. It will apply whose conduct, behavior and/or performance falls below acceptable standards or regulatory requirements will be subject to corrective action.

Everyone is expected to conduct themselves in a manner which conforms to HSE standards of workplace behavior and conduct. When a violation of an established standard occurs, cases will be investigated thoroughly and disciplinary action will be administered on the merits of each case.

35. SAFETY REVIEW MEETING

Safety review meeting conducted every month to address any deficiencies and improvement opportunities in the system are being discussed in a constructive manner and necessary measures needed to improve it.



This meeting will be chaired by unit head, execution and QHSE team will be part of the meeting. Secretary of the meeting is a from QHSE team.

36.STEPS TO REDUCE ENVIRONMENTAL IMPACTS

- Continual Improvisation of the system to reduce the use of natural resource (Eg: Electricity, water, paper) in CSL-MSRU.
- Continual Improvisation of the system to reduce the pollution resource (Eg: air, water and soil) in CSL-MSRU.
- Promotion of use of environment friendly materials in CSL-MSRU.
- Action to reduce any leakage of water in CSL-MSRU. If water leakage is observed in your area, report immediately.
- Avoid Improvised connections and use of standard leak proof couplings for getting water.
- Electrical equipments to be switched off when it is not use.
- Promote the use of one side paper in offices.
- Avoid dumping oil or paint sludge directly in sea water.
- Paint drums, oil drums, blasting materials etc. are to be taken away from the dock floor before flooding the dock and area will be cleaned.

12 SALIENT SAFETY RULES

- DISCUSS WORK RELATED SAFE OPERATING PROCEDURES IN DAILY TOOL BOX MEETING (TBM)
- PUT UP APPROPRIATE WARNING / CAUTION BOARD IN YOUR WORK PLACE TO NOTIFY UNSAFE CONDITION TO FELLOW WORKERS
- COMPLY WITH PERMIT TO WORK PROCEDURE
- MAINTAIN CLEAR & SAFE ACCESS TO WORK PLACE
- SECURE FULL BODY HARNESS WHEN WORKING AT HEIGHT
- USE CERTIFIED SCAFFOLDING
- OBTAIN DAILY SAFE ENTRY PERMIT BEFORE ENTERING CONFINED SPACE & COMPLY GAS MANAGEMENT
- USE ELECTRICAL EXTENSION BOARDS WITH FELCS

USE TESTED & CERTIFIED LIFTING TOOL & TACKLES, GAS HOSES AND ELECTRICALLY OPERATED TOOLS

BASIC PPEs

- SAFETY HELMET WITH CHIN STRAP
- PROTECTIVE CLOTHING
- SAFETY SHOES

PROTECT YOURSELF BY WEARING APPROPRIATE PPE'S AT WORK

GOOD HOUSEKEEPING PROMOTES QUALITY, PRODUCTIVITY AND HEALTH, SAFETY & ENVIRONMENT

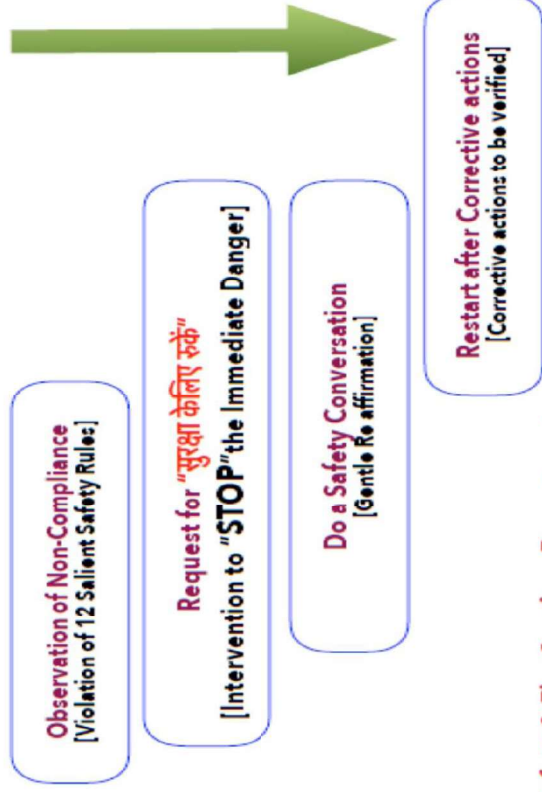
- DON'T LEAVE LOOSE MATERIALS AT WORK SPOT WHERE LIKELY TO FALL & DON'T STAND UNDER SUSPENDED LOADS
- DO NOT USE MOBILE PHONES WHILE DRIVING OR CARRYING OUT WORK ACTIVITY
- DON'T CARRYOUT HOT WORK AND PAINTING WORK SIMULTANEOUSLY

The 12 Salient Safety Rules are the fundamental safety standards expected from everyone in CSL rolls, Partners, Subcontractors & their workmen and Owners/Classification societies to comply with, at all times

When work does not comply with 12 Salient Safety Rules:-

Every individual is responsible and obliged to request for
“सुरक्षा के लिए रुकें”

“WHAT TO DO” FLOW CHART



Safety & Fire Services Department



"Protect our earth"

"They are waiting you at home"

Paste your family photo here

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
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.
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/CMSRU 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	<p>"Bidder from a country which shares a land border with India" for the purpose of this Order means:-</p> <ul style="list-style-type: none"> 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	<p>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>
	<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>

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.	

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 from 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.



Specific Terms & Conditions

Enq no: MP1/Hiring of Four Seater and Seven Seater vehicles/CMSRU

1. Payment – 100% payment shall be released against invoice certified by Executing officer supported by service report and WCC and other mandatory documents, within 30 days from the date of submission of invoice after successful completion of the job scope.
2. Guarantee – Minimum 06 months' guarantee is required for the repaired/overhauled equipment/system and 12 months' guarantee is required for renewed equipment / system. In case of Guarantee defects, it shall be attended within 48 hours from the date of intimation.
3. Manpower has to be mobilized against CMSRU LOI/WO and work has to be commenced immediately as per the instruction of executing officer.
4. Vendors are strongly advised to visit work site prior to quoting.
5. Vendors should be able to carry out and complete the work at CMSRU yard, Mumbai and all the necessary passes to be arranged accordingly by the vendor
6. Any loose items, if needed, shall be delivered at CMSRU(MbPT) on door delivery basis to Hughes Dry Dock (Indira Docks), Mumbai Port Authority, Mazagon, Mumbai.
7. Entire scope of work has to be finished within **07 days** from LOI/PO.
8. CMSRU reserves the full right to change the work scope/amend the work scope according to the site condition
9. CMSRU reserve the right to offload the job to more than one subcontractor (parallel contract) to meet the schedule against this tender.
10. CMSRU have the full right to modify (Deletion) the work scope in line with the final requirement, time lines of repair project, availability and spares.
11. CMSRU will place composite work order against this tender which includes the cost of material as well as service.
12. CMSRU have the full right to issue the work order based on **overall L1**. Final decision shall be done by CMSRU.
13. L1 firm has to provide detailed price split up (if required) within 03 days from the date of confirmation from CMSRU.
14. Firm to provide necessary valid certificates (wherever required).
15. Firms should have related similar experiences as per the work scope mentioned and the supporting documents as a proof to match the work experiences shall be submitted to CMSRU, if requested.
16. CSL/CMSRU has the full right to withdraw the tender in partial or full during the course of this tender without giving any prior notice / clarifications to vendors.
17. CSL/CMSRU has the right to accept or reject any or all of the offers.
18. Vendors are requested to submit the bid in the attached price bid format **(in Single Bid)** for avoiding discrepancies/confusions during the comparison stage.

Seal & sign authorised person

19. Vendors are requested to submit a signed copy of Encl. 1, 2,4, 5, 6, 7, 8, 9 along with unpriced bid format clearly indicating quoted/not quoted against each job scope with the Tech. bid for verification.
20. All documents submitted against this tender shall be signed and sealed by authorized persons and the compliance matrix shall be submitted in the company letter head of the vendor. Otherwise it may be rejected without prior notice.
21. All tools and tackles for successful completion of the job shall be arranged by the contractor.
22. Contractor shall abide by the CSL safety rules.
23. All consumables for the job shall be in the scope of vendor.
24. Job completion period has to be mentioned in the unpriced priced bid format.
25. All Material passes and Man Entry Passes to be arranged by contractor. Required authorization letter only will be issued from CMSRU.
26. Forward offers and communications from mail IDs starting with words as highlighted in below message, since the message will be blocked and may not necessarily reach the indented ID, as indicated in below.

info
support
admin
sales
customersupport
helpdesk
mail
mailadmin
billing
hello
careers

27. Safety Measures that are to be ensured by contractors are :

- 1.Db IP44 type with ELCB
- 2.Blower with guard on both side
- 3.24-volt lamp with wire and DB
- 4.Flash back and non-return valve for Cylinder (DA and Oxygen is allowed)
- 5.welding machine with ELCB of 30 mA to provided
- 6.Power tools like Grinding Machine should have handle and guard
- 7.Proper PPEs need to provide by the contractor to workers
- 8.Induction class need to attend by the new workers

Dy.General Manager (CMSRU)

Unprice bid			
MP/Hiring of Four Seater and Seven Seater vehicles/CMSRU		Encl.2	
S/No.	Description of Work	Rate	GST%
1	A/c 05 seater(Hatchback) car (vehicle duration of continuous nature more than a week)	(A).Fixed rates up to 600 KM/Week upto 55 hours/ week.Vehicle with Driver (Suzuki Espresso/Alto/Celerio/Renault Kwid). (B). Rates beyond 600 KM/Week Charges per km after completion of 600 kms in a week will be calculated as (extra km charges): Rates beyond 55 hours/ week Charges per hour after completion of 55 hours in a week will be calculated as (extra hour charges): Fixed rates up to 600 KM/Week upto 55 hours/ week. Vehicle with Driver (Swift Dzire, Etios, Amaze, Glanza, or Baleno). Rates beyond 600 KM/Week Charges per km after completion of 600 kms in a week will be calculated as (extra km charges): Rates beyond 55 hours/ week Charges per hour after completion of 55 hours in a week will be calculated as (extra hour charges):	
2	A/c 05 seater(Sedan) car (vehicle duration of continuous nature more than a week)	Fixed rates up to 600 KM/Week upto 55 hours/ week. Vehicle with Driver (Swift Dzire, Etios, Amaze, Glanza, or Baleno). Rates beyond 600 KM/Week Charges per km after completion of 600 kms in a week will be calculated as (extra km charges): Rates beyond 55 hours/ week Charges per hour after completion of 55 hours in a week will be calculated as (extra hour charges):	
3	A/c 07 seater car - (Additional requirement / need basis)	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Ertiga, Bolero, Scorpio or Carens). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges): Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
4	A/c premium 07 seater car (Innova- crysta ,HYCROSS) (Additional requirement / need basis)	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Innova-crysta HYCROSS). Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges): Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	

5	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Suzuki Espresso/Alto/Celerio/Renault Kwidi).	
	Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
6	A/c 05 seater(Hatchback) car (Additional requirement / need basis)	
	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver (Swift Dzire, Etios, Amaze, Glanza, or Baleno).	
	Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
7	Non A/C 17 Seater Bus (Additional requirement / need basis)	
	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver	
	Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	(C). Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
8	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver	
	Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
9	Fixed rates up to 100 KM/day and 12 hours per day. Vehicle with Driver	
	Rates beyond 100 KM/day Charges per km after completion of 100 kms in a day will be calculated as (extra km charges):	
	Rates beyond 12 hours/ day Charges per hour after completion of 12 hours in a day will be calculated as (extra hour charges):	
TOTAL AMOUNT		
TOTAL AMOUNT INCLUSIVE OF GST		

Completion period

Seal&Sign of authorised person

Health, Safety & Environment Contract Guidelines for OEMs /Turnkey jobs / Sub contract works
inside CSL

Encl: 9

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 guide lines 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.