TENDER ENQUIRY

Tender Ref No: **MP1/Hiring of DG/ICGS Varaha/CMSRU** Dear Sir,

Sealed Tenders in **Two Bid**, super scribing the Enquiry Number & Last date for receipt of Quotations on the envelope, are invited in two separate covers as 'Part I Techno Commercial' & 'Part II Price' for **Hiring of Silent Gen-set (Min. 500KVA)** for **ICGS Varaha at (Cochin Shipyard Ltd- Mumbai Ship Repair Unit)**, **Mumbai**.

1 The offers as above should reach the undersigned on or before the last date and time shown. Tenders should be addressed to "The 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 <u>11.00 hrs (IST) on, 16 July 2025</u> if delivery of sealed offers cannot be ensured at CSL on the due date.

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

4. Vendors should be able to provide service at CMSRU, Mumbai for a given duration of time.

5. Quotation should be valid for a period of 03 months.

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

gokul.rk@cochinshipyard.in

lijo.jacob@cochinshipyard.in

cmsru.materials@cochinshipyard.in

OR

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

Last Date & Time of Receipt of Tender: <u>16 July 2025 at 11:00 Hrs IST.</u>

Last Date & Time of Clarification: 14 July 2025 at 12.00 Hrs IST.

Tender Opening date &time: <mark>16 July 2025 _at 11:30 Hrs IST.</mark>

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 <u>www.cochinshipyard.com</u> and the CPP portal <u>www.eprocure.gov.in</u> regularly. Such amendments shall be binding upon them.

Enclosures: -

- 1. Special Instruction for Two Bid Systems
- 2. Scope of work
- 3. Price bid
- 4. Rules for engaging workmen in MSRU
- 5. CSL-MSRU HSE Booklet
- 6. General Terms & conditions
- 7. Specific Terms & conditions
- 8. Unprice bid
- 9. Compliance matrix
- 10. H&S Contract Guidelines for Sub_contract work in Side CSL . Rev 00 Sept 2020

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

- 1. Special Instruction for Two Bid Systems
- 2. Scope of work
- 3. Price bid
- 4. Rules for engaging workmen in MSRU
- 5. CSL-MSRU HSE Booklet
- 6. General Terms & conditions
- 7. Specific Terms & conditions
- 8. Compliance matrix
- 9. H&S Contract Guidelines for Sub_contract work in Side CSL . Rev 00 Sept 2020

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

In case of technical queries, please contact Mr. <u>Arjun M (DM - CMSRU)</u> (Mob No.9920492254)

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

MP1/Hiring of DG/ICGS VARAHA/CMSRU ENCL.2

1. Provisioning of 01 Nos. Silent Gen-set with services of min. 500KVA rating to cater for shore power supply for the short refit activities of ICGS VARAHA. Detailed services include mobilization/demobilization, installation, commissioning, round the clock operations manned by a competent operator along with maintenance inside the CSL-Mumbai premises. Specifications of Gen-set are as follows:

- Rating: Wye type, 3-phase, 415 Volts, 50 Hz (Cycles/sec) of min. 500KVA (0.8 pf Lag) with PRP ratings capacity. Continuous duty Turbocharged Engine/prime-mover with min. power rating of 400KW.
- **Cooling/Coolant:** Engine-driven and remote radiator in primary circuit along with a separate provision for secondary circuit cooling. Optimum ambient temperature: 45 deg. C.
- Enclosure: Integral acoustic enclosure (75 dB (A)) with provision for Engine breather vents, Rain-water entry and external environment protection & compliant. Shall be preferably made up of a metallic conductor with earthing/grounding link of suitable capacity/rating.
- Measuring instruments (DG): Calibrated KWHr (Units) meter with pre-certified multiplication factor (defined CT/PT ratio) along with running hours' indication. Optional: Digital/Analog flush mounted meter/control panel to ascertain parameters such as V, I, Frequency, p.f., KW/KVAR load, DG/CB on-line/off-line status and etc.
- **LT Switchgear:** Provision of 3/4-pole ACB for energizing/de-energizing and interrupting purpose having a CC rating of min. 800 Amps with Ics (for 1 sec) = 50kA.
- **Relay protection:** Under-voltage/frequency relay trip, over-current/voltage/frequency protection/trip, Short-circuit/earth-fault current protection/trip, Lub oil pressure alarm/trip, HT alarm/trip, over/under speed protection/trip for prime mover and other relevant protection incorporated and integrated with DG control panel.
- Measuring instrument/indicator (Fuel tank): Level/volume indicator
- Conforming to: Latest CA approved Emission / Noise / Vibration level standards.
- **Overall dimension:** 6x2x3 meters (to not exceed)
- Weight: To not exceed 12T (gross)
- Provision of lifting hooks and slots of suitable dimensions.
- Provision of fuel tank (with breather) of suitable capacity and to be situated around the plant structure. Accessories pertaining towards daily operation of fuel tanks such as pipes, pumps etc. to aid transferring of fuel shall also be catered under the quoted cost.
- Flexible mains power supply cable (copper conductor with insulation rated for 1100Volts) of min. 75 meters' length and of suitable size/load for the plant.

2. An approximate duration of 30 days towards rendering of above services is expected as per the yard timelines of the activities. If extended for a further period, payment shall be made on a pro rata basis subject to concurrence and approval from the competent authority. Actual duration will depend on the yard timelines and payment shall be based on the actual utilization of the Gen-set certified by authorized representatives of CMSRU.

Scope of work (for bidding)

Sr. no.	Description	Quantity	UOM
1	Hiring charges of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	30	Day
2	Operational running charges with fuel (firm supply) of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	720	Hours
3	Operational running charges without fuel (yard/vessel supply) of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	720	Hours
4	Competent operator charges for working round the clock (1 Nos.)	30	Day
5	Mobilization, demobilization & commissioning charges (including connection/dis-connection) of Gen-set along with cables, fuel tank and other associated accessories.	1	LS

Note:

1. All firms/agency should inspect the work scope (including all miscellaneous activities such as length of cable required, positioning of the set along with its accessories and etc.) before bidding.

2. Contractor shall inspect the requirement as per this SoW and shall obtain all required details from the yard in connection with operation of the Gen-set. Any associated accessories required for optimum operation and maintenance of Gen-set shall be supplied by the vendor within the quoted cost.

3. All formalities related to obtaining necessary entry pass/clearances from MbPT for man and materials and mobilization of equipment to CMSRU is under the scope of firm/agency.

4. Contractor has to arrange all necessary equipment & machinery for transportation, loading & unloading etc.

5. CSL quality and safety procedures to be followed for entire period of work by Contractor. Operator should wear proper PPE during the operation hours.

6. Quality checks and procedures of CSL to be followed for the entire work and work completion certificate to be obtained from the yard.

7. Log book shall be maintained by the vendor for operation of Gen-set. Working/idle hours and fuel consumption to be certified by ship & CMSRU representative. Actual running/idle hours/days along with fuel consumption data shall be counted only after successful commissioning of the plant along with the relevant ship's system.

8. Any impending faults/defects occurring on the Gen-set supplied shall be rectified within a minimum time-frame that shall be adjudged by the concerned CSL Officer in-charge based on the associated

necessity & criticality. If needed, same has to be replaced within 12 hours post occurrence of the persisting fault.

9. Gen-set to be positioned within 24 hours of intimation by the concerned authority of CMSRU yard inside the yard premises.

10. +/- 50% variation class applicable for this tender if necessary for operational requirements, however additional no of days will be concurrence from competent authority prior extension.

11. This tender shall be issued on OTE basis and processed based on Overall L1.

Seal&Sign of authorised person

	PRICE BI					
	MP1/Hiring of DG/ICGS Varah		ENCL.3			1
SI no.	Desriptin	Qty	UoM	Unit rate	Total rate	GST%
1	Hiring charges of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	30	Days			
2	Operational running charges with fuel (firm supply) of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	720	Hours			
3	Operational running charges without fuel (yard/vessel supply) of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	720	Hours			
4	Competent operator charges for working round the clock (1 No.)	30	Days			
5	Mobilization, demobilization & commissioning charges (including connection/dis- connection) of Gen-set along with cables, fuel tank and other associated accessories.	1	LS			
	TOTAL AMOUNT					
	TOTAL AMOUNT INCLUSIVE OF GST					

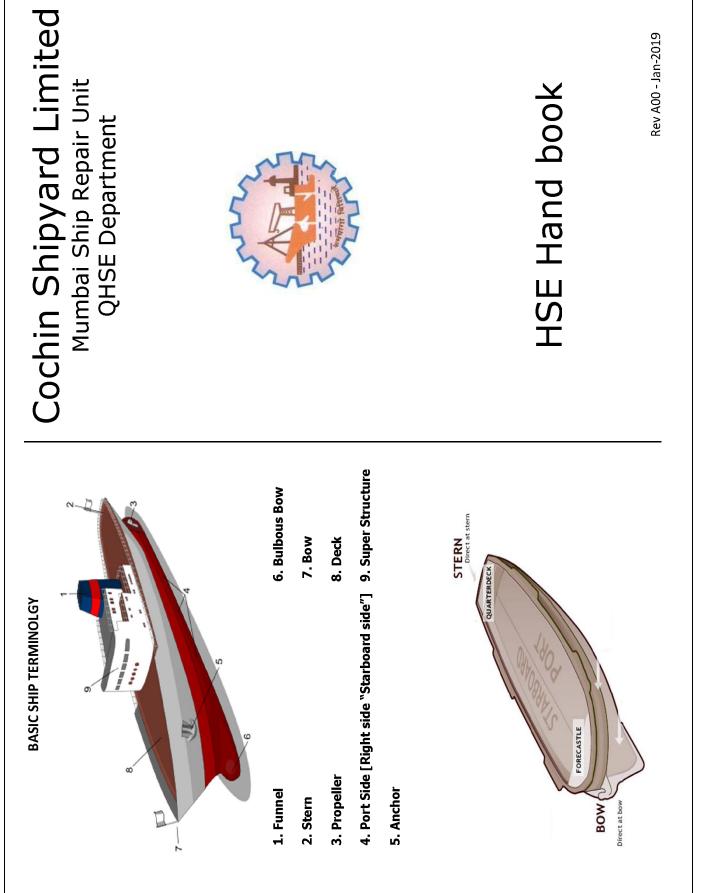
Seal & Sign of authorised person

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





INDEX 1. INTRODUCTION. 2. OHSE POLICY	3. HSE MANAGEMENT SYSTEM IN CSL-MSRU 4. SAFETY INDUCTION	5. WORK AREAS IN CSL-MSRU 6. RESTRICTED ENTRY AREAS IN CSL-MSRU	7. GENERAL SAFETY GUIDELINES	8. HSE GUIDELINES 9. RESPONSIBILITIES OF CONTRACTOR	10. REPORTING OF INCIDENTS	11. PERMIT TO WORK SYSTEM	12. PERSONAL PROTECTIVE EQUIPMENT	13. HOUSE KEEPING	14. WELDING & CUTTING	15. SURFACE PREPARATION	16. PAINTING	17. WORKING AT HEIGHTS	18. WORKING OVER WATER	19. CONFINED SPACE	20. HAND TOOLS AND POWER TOOLS	21. WORKING ON MEACHINE TOOLS AND	MACHINERES	_
<mark>Emergency</mark> Telephone Numbers	622-220		WHILE MAKE AN EMERGENCY CALL!!!	Clearly State;	etc) Mhara is the americancy (ar: Danair dock - BV 90 -	tank no. 2(p))	Control Con	Responsible person or supervisor must be with victim			The Rid Parts and Parts				WE REED YOU			

22. HANDLING ELECTRICITY	1. INTRODUCTION Cochin Shinvard Limited – Mumbai Shin Bonair Unit
23. MANUAL HANDLING	(CSL-MSRU) places utmost importance on the safety of
24. LIFTING OPERATIONS	its employees on rolls, Partners, subcontractors & their workmen and Owners/ Classification societies and will do
25. BASIC RIGGING SIGNALS, TACKLES AND	its best to provide and maintain a safe and healthy working environment
METHODS	
26. DOCKING & UNDOCKING	
27. SLIPS, TRIPS AND FALLS	Managerial Grade down to the Workman level has a definite role to plav their work is safe.
28. FIRE	This Cofety back had been associated by OUCE
29. GENERAL PERSONAL FACTORS LEAD AN	Department for the use of all personnel working or
INCIDENT	visiting inside the yard.
30. OFFICE SAFETY	This book does not replace the detailed requirements, safety rules in vorme practiced by CSI-MSRI1 for further
31. WASTE MANAGEMENT	clarification on HSE requirements, QHSE team will guide
32. OCCUPATIONAL HEALTH	you to work safely.
33. FIRST AID	
34. COLOUR CODING WITH TYPES OF SERVICE	
MANIFLODS/PIPE LINES & ELECTRICAL	
DISTRIBUTION BOXES	
35. CONSEQUENCE MANAGEMENT	
36. SAFETY COMMITTEE	
37. STEPS TO REDUCE ENVIORNMETAL IMPACTS	
	BOOK

3. HSE MANAGEMENT SYSTEM IN CSL-MSRU	3.1 Choice 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	sup yard. CSL-MSKU 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
2. QHSE POLICY		CUALITY, 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 underste these in healthw & and working		Developing competent marine engineers. Preventing occupational ill health and injuries. Ensuring safe work sites. Conserving natural resources. Preventing / Minimising air, water and land pollution. Handling and disposal of hazardous wastes safely.	Developing skills and motivating employees. March 2016 Chairman & Managing Director A issue & Fervision No. AD 2

after successful completion the HSE induction training programme.	Hiring or bringing the materials / equipments / machinery (Annexure 4 - Entry Checklist for equipment and toos)
5. WORK AREAS IN CSL-MSRU a. Dry dock - 305 X 30 X 15 meters b. Borth 5 6 7 8 8 (radira Dock)	8. HSE GUIDELINES
	1) Usage of Safety Helmet with chin strap, safety shoe and
6. RESTRICTED ENTRY AREAS IN CSL-MSRU Due to potential hazards, entry restricted to authorized	be used. (refer CSL- PPE'S Matrix) at CSL-HIJKU work be used. (refer CSL- PPE'S Matrix)
persons in the following areas. a. Substations b. Flammable gas storage area c. Barricade the locations with warnings as and when required.	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
7. GENERAL GUIDELINES	QHSE Dept. These control measures are to be communicated to the workers involved through tool box
1) Every individual is responsible and obliged to "Suraka	Analysis (JSA)(Refer Annexure 2)
Relive Kukelly for the fiol compliance of 12 Shert Safety Rules published by CSL and this is to be performed as per the guidelines mentioned towards an interdependent	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.
 4) Parking or venicle 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 drugs. 	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.
5) Everyone should observe and obey regulatory signs. 10)Use of mobile phones is strictly prohibited while at work and driving including while cycling.	7) Thinner is not to be store in beverage bottles
 Horse play in country wine cycling. Horse play is not entertained in CSL-MSRU. (Example: Direct compressed air or gas on any person) Hiring or bringing the materials / equipments / machinery in CSL-MSRU premises to be followed as per the quidelines, Refer entry management system for 	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.

 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 connection the connection connection be put away from the edge of the connection connecti	 asyme the enter 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 prompty when work is suspended. 35)Dumping 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. 30)Compressed air should not be used to clean dust in the should be subpended from overhead hooks. 41)Air hoses, welding cables, fuel hoses and electric cables they should be subputed from overhead hooks. 42)Thatmable liquids must be handled in cans or containers must be clearly in be subputed from overhead hooks. 	
 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 form and and a taken before commencing the bottom/side shell of ship form and a taken before commencing the bottom/side shell of ship form and a taken before commencing the bottom/side shell of ship form and a taken before commencing the bottom/side shell of ship form and a state bottom and a state bottom/side shell of ship form and a state bottom/side shell of ship form and a state bottom/side shell of ship form a state bottom and a state bottom a	 During data calculations and suitable between 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. Influential Oxygen is not to be used for ventilation purpose. Influential Oxygen is not to be used for ventilation purpose. Simultaneous operations of Hot work and painting are not to be carried out in the same area. Simultaneous operations of hydrocarbon fumes. Influential Oxygen is not work should be carried out in the presence of hydrocarbon fumes. All electrical equipments including AC welding machine should be properly earthed. Sol) Ensure that ELCB/RCCB is fitted on all Welding Machines and extension baards. Ensure cables have sufficient current carrying capacity that is used for all electrical equipments/tools. Jensure Bypass Safety Relay on AC welding machines fitted on AC welding Machines. Solonty authorized persons are allowed to operate any machine/equipment. Volutage Reducing pard socket to be used. Sonty authorized persons are allowed to operate any machine/equipment. Volutage Active boards. Donly allowed to CSL-MSRU electrical team. Solonty authorized persons are allowed to operate any machine/equipment / Switch boards. Never ampres with machine guards. Never any and socket to be used. Never any anthorized persons are allowed to operate any machine/equipment / Switch boards. Never and so and individual MCB. Only industrial type plug and socket to be used. Never and a socket to be used. Never anther and providable equipments, welding transformers/rectifiers must be switched off after use. Never and and so to prable equipments, welding transformers/rectifiers must be switched off after use. V hand lamps in open area and 24 V hand lamps are	

 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 	 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.
authorized persons only. 45)Everybody should be responsible for housekeeping at their work site.	10) For further clarifications on HSE matters, Contact CSL-HSE Officer.
46)Avoid activity/action that leads to air/water/soil pollution. 47)All the pressure line joints must be connected with	10.REPORTING OF INCIDENTS
whiplash/whip sock arrestor. 48) Gas management for cutting operations to be complied as the procedure(Annexure 3- Gas management Procedure)	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
9. RESPONSIBILITIES OF CONTRACTORS	CSL-MSRU personal injury reporting form (CSL / SMS / S&F/ Form 02) to be initiated by the officer in charge of the area
1) The Contractor before starting any work in the CSL-MSRU premises will be issued with these CSL-MSRU HSE	and reach to QHSE dept within 24 hrs.
ted to give a SSL-MSRU H9	Format of HSE Observations (near miss, property damage, suggestions, violation etc) other than personnel injury
will comply with laid therein. 2) The contractor should convey the HSE guidelines to his	incidents shall be available at HSE site cabins/offices.
workers and make them aware through tool box talks. 3) A responsible safety Incharge is to be designated by the	11.PERMIT TO WORK SYSTEMS
shall be communicated to QHSE team. He shall take a lead	The following activities must not commence unless obtaining
4) CSL-MSRU reserves its right it suspend work lites.	The type of work permits are:
or 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	a) Hot work (Oxy Acetylene cutting/Welding On Board Ships)
representative of the contractor should maintain appropriate contract with the CSL-MSRU officer-in-charge	b) Painting / Buffing in Confined spaces (Brush/Spray paintings in Tanks/Confined
of the work as may be necessary to acquaint himself with any changed conditions of other matters relating to the	compartments) uit down (Works
HSE performance. 6) The contractor shall ensure that all his employees	installation/Equipments)
unde	7
 It is the responsibility of the sub- contractor firm to provide their employees with all the necessary PPE'S. 	а) work at неідиутадіїе гоог b) Excavation/Trenches Opening (any) c) Excavation/Fuel or electrical trench opening)

I COOD DUSEKEEPING PROMOTES DO YOUR PART-	 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
	12.PERSONAL PROTECTIVE EQUIPMENTS
	ਚ
identifiable and traceable. d. Suitable control measures shall be ensured while storing of flammable materials and chemicals. e. The MSDS (Material Safety Data Sheet) of each	
 c. All the waste generated during project taken back out from CSL-MSRU premises. Items shall be stored in such a way that it is easily identifiable and tresceable. 	
· ·	system) 4) JSA FOR NON ROUTING WORKS a) Chemical cleaning – pipe line, tanks, equipment's
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) kadiograpny (NULL tests using kadioactive materials, Any Expose of radio Active materials) b) Electrical Shut Down (Works on Electrical installations/closed proximity of distribution
13.HOUSE KEEPING Good housekeening is an important part of HSE	3) TYPES OF WORK THAT REQUIRE A PTW (STATUTORY)

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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

 - Burns
- 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 accidently "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 connecters 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 fasting by double ear end clip or crimping and **not jubilee clips** which is prohibited by CSL-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.	The cylinders should be shielded from direct sun light, or other heat source, to avoid the buildup of excess internal
If the atmosphere becomes oxygen enriched due to leakage, the work area must be purged with fresh air and all	pressure. Valid certificates of cylinders shall be produced while bringing the cylinders to be yard. 15 SURFACE PREPARATION
inglinationable intertions intust be well ventioned and the risk of spontaneous combustion. Gas hoses sh sconnected from the manifold/cylinder for the stoppa ork on the day and to be locked at manifold or cylind	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.
All the gas hose must be tested every 6 months. Only oxygen and acetylene gas's are allowed inside the CSL-MSRU premises.	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
14.3 Gas Cylinders	be erected while blasting operations are being carried out.
Before use, all gas cylinders must be fixed and secured in an	16 PAINTING
upright position, and praced at a safe distance from any freat 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.	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.
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 trollevs, when attempting to move cylinders not mounted on	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.
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	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.
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	17 WORKING AT HEIGHTS A suitable means of access and egress must be provided for all working places which cannot be reached from ground
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.	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





The key points to be observed when erecting scaffolding Green tag **Red Tag**

- The ground must be firm enough to carry the weight of the scaffold, and the load the scaffolding will be are. А
- There should not be any gaps in the working carrying. Δ
 - Hand rails with mid rails at 1 meter and half meter height should be ensured for the working platform platform Δ
- working platform. Access ladders are to be provided Access ladders shall be provided to reach the zig zag manner if the height is more than 2 meter. Δ
 - 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. A
- Secondary Platform must be place if the scaffolding height more than 6 meters. A
 - Scaffolding validity is 15 days from the issue date after 15 days re inspection must be requires.

Full body Harness 17.1

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 When it is necessary to work in temporary work platform hook shall be of scaffold hook.



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 А

 - Safety net shall be used wherever practicable. Buoyancy aids shall be made available near the work area. AA

19 CONFINED SPACE

The term "Confined spaces" covers a great variety of inadequate 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 potentially dangerous places to work because workers may get trapped monitoring of the space is required if situation warrants. (Refer CSL Confined space entry procedure for details) are therefore workplaces which have limited access and spaces Confined ventilation.

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

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.	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.
20.1.2Chisels and punches $Theorem Theorem Th$	20.1 Hand tools
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.	CAUTION WATCH YOUR FINGERS AND YOUR HANDS
The faces of hammers should be kept clean and free from grease, and be of sound condition (not pitter or broken	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.
20.1.1Hammer	
neignts. Where there is a risk of injury from hying objects such as striking two hard surfaces together, e.g. hammer, chisel, punch or similar articles, better to wear an eye protection.	20 HAND TOOLS AND POWER TOOLS
When working at elevated location, all tools should be placed in a tool box to prevent loose tools being dropped from the	
0	HO WORK FEMALTED
HGHT X TOOL?	entry procdure) No entry man entry permitted hot work permitted
THE S	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
screwdrivers as chisels, spannérs to hammer nails, and pliers to screw up or unscrew nuts are prime examples of	the spaces. Use only 24V hand lamps while working in confined
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	Ensure adequate ventilation prior to entry and constant circulation while personnel are inside. Flameproof blowers shall be used where containing hydrocarbons in
The main cause of injury is the general misuse of tools, the use of unsuitable or poorly maintained tool and improper	The following guidelines to follow while entering into confined spaces.

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	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	producty and stranged in any can be used in a paracular situation, less chance of slipping.	Pleces 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 holt 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
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 property. Too large or too small	ade will damage the screw, and not work is blades must be kept square and hav	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	nancies may split in naminered. Serious puncture wounds can be sustained as the result of carrying screwdrivers in the pocket of clothing or coveralls. 20.1.5Hacksaws		The blade should always be correctly tensioned in the frame, 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, that but not over proceeded the action of the frame,	raut put libt over telisioned. Ose a steady, forward duting

body type. Portable electric power tools must not be used if	
any defect is suspected or any damage apparent. Repair and	While working with Machine tools and machineries the
routine maintenance shall be carried out by trained and qualified electricians.	should be taken.
Only chuck keys of the correct type shall be used to operate	1. Authorized persons should be allowed to use a machine
the chuck before operating the equipment and ideally,	
clipped to the cable to avoid improvisation.	 Ensure sufficient illumination at the point of operation In wood planing machines Push sticks and push blocks
20.2.3 Powdered Disc Grinders	should be used for guiding the wood to the planing machine
Powered disc grinders can be air or electrically driven.	5. Stand at a safe distance from the machineries to protect
General operation applies equally to both types. The security of the disc and condition must he checked hefore attempting	the operator from kick backs, flying materials, moving
to use. Care must be taken to avoid knocking or sudden	6. Switch off the machine after use
impact of the disc to prevent damage and possible	7. Ensure machinery guards in place
distruction of the disc. The KPM of the grinding machine should be lower than the RPM of the grinding disk	8. Ensure lubrication oil or coolants are not spillover near and on the machines.
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	22 HANDLING ELECTRICITY
cause injury to personnel in the area.	The main hazards in electrical works are electrocution, burns,
20.2.4Compressed Air	fire and explosion.
	1. All wires must be treated as live wires until it is positively
Extreme caution must be used when using compressed air, as	known that they are dead
It is delivered at ilight pressure. Ifont dust and rust particles may be precent in compressed air If it enters the body it	2. No repairs are to be made to electrical equipments by
can rupture internal organs and cause serious injury and even	anyone except qualified authorized electricians. 3 Never use an electric light extension cord unless it has an
death.	
Do not attempt to clean off coveralls or clothing as it can	-
rorce narmtul particles through the skin.	5. Always wear rubber gloves when working around circuits
	7. Before starting any repair works or resuming the supply
	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, pilling, 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)

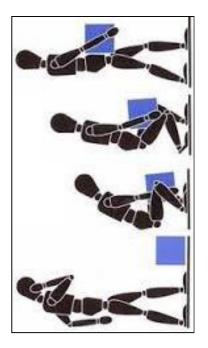
Take a firm grip with the palm and roots of the fingers and thumb, keeping your arms as close to the body as

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:

 Only authorized, competent persons are allowed to operate cranes.

Crane operators must only take instruction from designated rigger. ч.

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



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	46	1/620	35240	34200	30600	25000	1/620
1.7/8	18	18970	37940	36800	33000	26950	18970
	E	21520	43040	41700	37400	30600	21520
	53	22870	45740	44400	39800	32500	22870
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1/1	22	02020	54540	52800	17300	38700	02020
	or LC	28280	26560	54800	49300	40200	28280
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Web sling colour chart

Violet Green Vellow Grey Red Brows: Blue
Orange 10 tons of shove

Web sling lifting chart

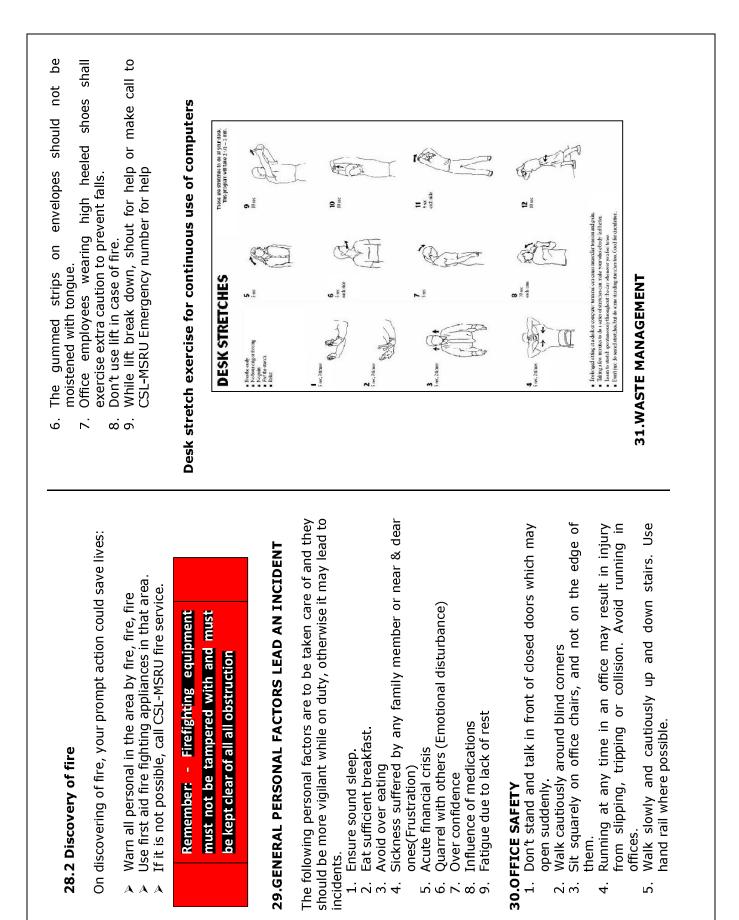
			S	SWL IN KG WITH ONE WEBBING SLING	TH ONE WEL	BBING SLING	0	SWL IN	WT HTIM BX	SIVL IN KG WITH TWO WEBBING SLINGS	SENIJS
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HFS01	1000kg	Victor	1000	800	2000	1400	1000	1400	1120	1000	800
HFS02	2000kg	ghaen	2000	1600	4000	2800	2000	2800	2240	2000	1600
HF S03	3000kg	yellow	3000	2400	0009	4200	3000	4200	3360	3000	2400
HF S04	4000kg	grey	4000	3200	0008	5600	4000	5600	4480	4000	3200
HF SO5	5000kg	red	5000	4000	10000	7000	5000	7000	5600	5000	4000
HFS06	6000kg	tecent	6000	4800	12000	8400	6000	8400	6720	6000	4800
HF S08	8000kg	stue	8000	6400	16000	11200	8000	11200	0968	8000	6400
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25. BASIC RIGGING SIGNALS, TACKLES AND METHODS

	End of the second secon	SLOWLY LOWER LOAD	teres informed inform	
z	Hoist Iower	Hoist Iower - slow	DOG everyth ing - pause the motion	
соммои		SLOWLY PARSE LOAD	Ender an and a second a second and a second	ALL
	Hoist up	Hoist up- slow	Stop – motion is finished	Emergency stop -

Slinging Methods	 26.DOCKING & UNDOCKING 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. Tugs or suitable supports should be ensured Tide level, List and Trim of the vessel level, docking plan and water currents to be taken care of while planning the docking & undocking Gangways shall be placed in a safe manner after the positioning the vessel Good condition of mooring ropes shall be ensured Suitable floating life vest to be worn if any chance of fall into water bodies. Bocking and undocking checklist must me follow for each project. 		 From not include Unsuitable foot wear Slippery surfaces Obstruction in walk ways Poor lighting or restricted vision
	Long travel - Right - Right Cross travel - Towards operator operator		Bow and D shackle Wire rope slinos with thimble	

ine piggest contribution you can make in preventing such accidents is by keeping your work-area clean, tidy and free from obstructions.	
	b. The nature of fire(combustion)
Also:	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
1. Use proper routes and walkways. Avoid short cuts	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.
whether there a	C. Elements of fire
damaged or obstructions on floor surfaces, lack of handrails and fencing as well as inadequate illuminated	are the presence of three elements, i.e. FUEL, HEAT and supply
areas 4. Correct use of ladders – firm level surface, secured at	of free OXYGEN, usually in air (formation of fire triangle).
the top and extended beyond the step-off point	
adequate separate handhold.	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,
AVAIN 15.15.1	-
MULTINE MUNE	 Don't overload electrical oudet sockets Don't use make shift wiring extensions
Now deay by CLERAS	5. Lighting of incense and candle is not allowed inside your
Contraction of the clean.	room. 6. Don't store any flammable items inside the room unless
	 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
28.FIKE	
a. Basic chemistry of fire	9. Inspection and maintenance of equipment and electric
Any fire, once it starts, will continue to burn as long as there	10. Maintaining and properly using portable equipment and
is something to burn and oxygen is present. There must be reasons for a fire to start and the way it burns. There are	nexible capies. 11. Adopting safe working practices and procedures



A waste is a material which is discarded or intended to be discarded.	health hazards and the precautions to be taken in handling
Waste identification and classification Type of Wastes are classified in CSL-MSRU activities	 The MSDS of the chemical being handled should be made available to the workers. 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
 Used Batteries Electronic Waste Steel Scrap Industrial Waste Cut Cable 	 Employees should maintain all his medical records and should be made available in case of an emergency. Stress of employees that is either job related or caused by various personal factors also can lead to accidents and subject
Waste disposal policy	the victim to various diseases.
1. No dumping of items in the yard premises and same shall be taken out from the vard as ner the OHSF	33.FIRST AID
nsible to d	First aid is the immediate emergency care / treatment given to the victim of an accident or sudden illness, till medical aid is available.
32.OCCUPATIONAL HEALTH	S
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,	 a) to preserve / save life b) To prevent further injury & worsening of casualty's condition c) To promote recovery
life style diseases and the various physical and chemical hazards. Proper awareness about the health hazards is a required for an emplovee to lead a healthy life	Ten Commandments for first aiders 1 reach the arcident snot quickly
	_
The various measures to be taken for reducing Health hazards	
ale. 1 Emolorone who are involved in bandline barardone chemical	
	o. do not leave the casualty alone 9. arrange for safe transport 10.do not attempt too much / do no harm

	33. 5 Chemical burns of the eye
Look for condition of the victim in the following order	1. Immediate washing of the eye with clean water continuously for at
1. is the victim conscious	least 20 minutes
	2. Apply sterile pad and bandage
 is the victim in shock 	3. Send to hospital.
5. is the victim in pain	33.6. Suffocation
33.1. Control of bleeding	1. Remove the casualty from the site of accident to safe area to get fresh
Apply direct pressure over the wound	air 2 Clorr than involu
 Cover wound with sterile dressing and bandage firmly Raise the injured part above level of heart 	
	4. Send to hospital
5. Immobilize the injured part 6. Look for signs of shock	33.7 Electric shock
	1. do not touch the casualty while he is still in contact with live source
-	
33.2 Fracture	do not attempt first aid until the contact has been broken
Suspect fracture when there is tenderness, swelling, deformity, abnormal	check response and breathing
~	
	and is not breathing
	33 8 Ilnconsciousnass
3. Immobilize the injured area as well as the joints above and below	
using suitable splints	
Call for ambulance to send to hospital	
33.3 Burns	 Start giving CPK if unresponsive and is not breathing If hreathing is normal keen the casualty in recovery nosition till he
1. If clothing on fire—stop, drop and roll	
	33.9 Chest pain
3. Do not apply ointments, oils or any other substance	1. If casualty is conscious, keep him in half sitting position and advise to
_	
5. Call for ambulance	 II UITCOTISCIOUS, CITECK D.A.A.D.C (Daligerous, Response, All way, Breathing and Circulation) and start giving CPR if necessary
33.4 Eye injuries	Call for ambulance and continue CPR till he gets medical help or show
 Removal of foreign body should not be attempted 	signs of life.
	10 Cardiopulmonary Ke
4. Send to hospital	CPR is the emergency first aid procedure done when the casualty is unconscious and not breathing.

The purpose of consequent Management is to provide a fair and consistent approach to dealing with every ones conduct, behavior and/or performance whose conduct, behavior and/or performance falls below acceptable Everyone is expected to conduct themselves in a manner which conforms to Continue CPR by giving 30 chest compressions followed by 2 rescue falls below acceptable standards or regulatory requirements. It will apply HSE standards of workplace behavior and conduct. When a violation of an Continue CPR until there are signs of life or until emergency medical established standard occurs, cases will be investigated thoroughly and discussed in a constructive manner and necessary measures needed to SERVICE MANIFOLDS/PIPE LINES & ELECTRICAL DISTRIBUTION Safety review meeting conducted every month to address any deficiencies and improvement opportunities in the system are being standards or regulatory requirements will be subject to corrective action. disciplinary action will be administered on the merits of each case. цО Breathing rescue breaths TYPES **CONSEQUENCE MANAGEMENT** Tilt the victim's head back and lift the chin to open the airway WITH **35. SAFETY REVIEW MEETING** Compressions Push hard and fast on the center of the victim's chest CODING personnel take over improve it. breaths 34.COLOUR BOXES ų. Check for breathing by looking rise and fall of chest wall for 5 to 10 thereby delay tissue damage, so that more definite treatment will be CPR consists of artificial circulation & artificial respiration given at regular sequence. CPR is effect only if performed within 4-5minutes of the Check breathing by watching rise and fall of chest wall for 5 to 10 CPR maintains flow of oxygenated blood to the brain and the heart, Place the heel of one hand at the centre of lower part of chest and Depress the chest at least 2 inches(5 cms) and allow full recoil of chest If the casualty is not breathing, give two rescue breaths in two If there is no response, open the airway by head tilt and chin lift Check the response by shaking the shoulders and calling loudly The rate of compression should be at least 100 per minute. Assess the area for any safety hazards before proceeding Begin chest compression – push hard and push fast If you see a motionless person, follow the steps below stoppage of blood flow. CPR sequence of steps is now place the other hand on top of the first. If there is no breathing start giving CPR Open airway by head tilt and chin lift Give 30 compressions at one stretch wall before next compression C- Chest compression **Chest compression**

B-Breathing

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A-Airway

C-A-B

seconds

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5 ω. 4. Air way opening

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Breathing

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seconds.

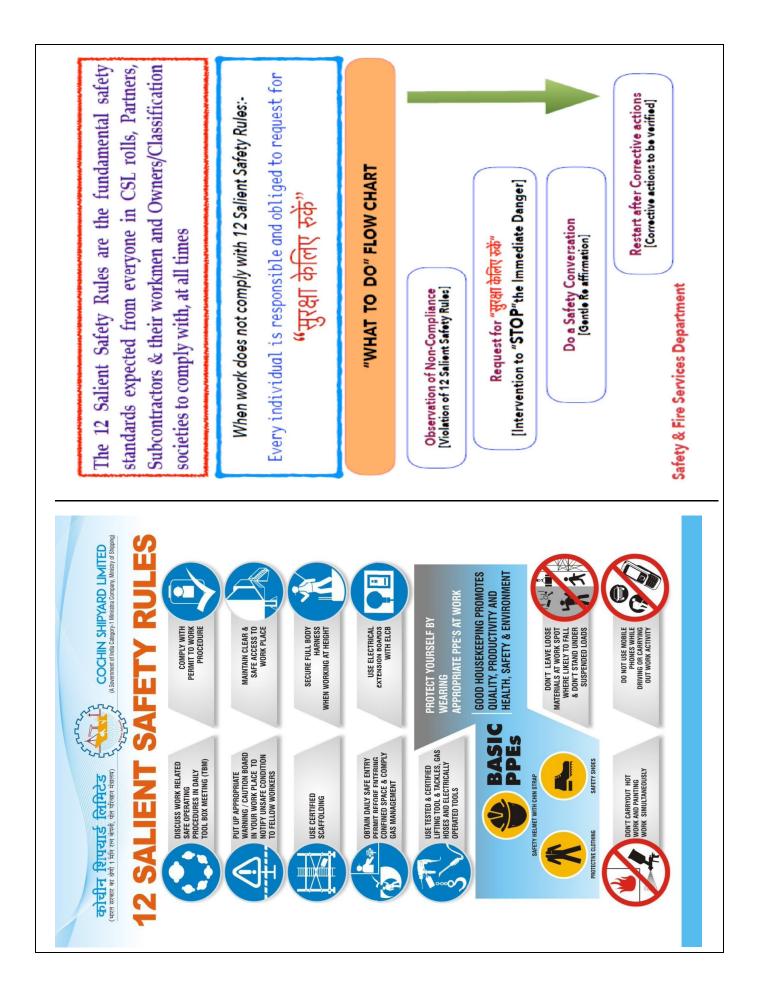
seconds.



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





"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, restrain 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

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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.

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	onditions for Restriction of bidders sharing land border with India vide Office memorandum dt 020 Order - Public Procurement no 1 dt 23.7.2020, Order no 2 dt 23.7.2020 and Order no 3 dt 24.7.2020		
Α	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. 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)		
В	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.			
С	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 of joint venture, every artificial, juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency, branch or office controlled by such person participating in a procurement process.			
2	 "Bidder from a country which shares a land border with India" for the purpose of this Order means:- a) An entity incorporated, established or registered in such a country; or b) A subsidiary of an entity incorporated, established or registered in such a country; or c) An entity substantially controlled through entities incorporated, established or registered in such a country; or d) An entity whose beneficial owner is situated in such a country; or e) An Indian (or other) agent of such an entity; or f) A natural person who is a citizen of such a country; or g) A constitution or joint venture where any member of the consortium or joint venture falls under any of the above. 			
3	Type of business entity(Private Limited Company/ Public Limited Company/ Sole Proprietorship/ One Person Company/ Partnership/ Limited Liability Partnership/ Joint Venture/ Trust/ NGO)In case of incorporated entity - to attach certificate of incorporation			
	Beneficial Owners- as defined in the Department of Expenditure Order (Public Procurement No.1) issued vide No.F.No.6/18/2019-PPD dated 23 rd July, 2020.Details of all beneficial owners having entitlement of more than 01% of shares or capital or profitto be given, in the format as given in Annexure-I duly certified by practicing Chartered Accountin India.			

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				
В	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				

с	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 form time to time and the decision of the Arbitrators shall be final and binding on the parties hereto. The arbitration will be done by a Board comprising one officer nominated by each party, and a mutually agreed Umpire. Each party shall bear its own cost of preparing and presenting its case. The cost of arbitration shall be shared equally by the parties unless the award provides otherwise. The enforcement of the award shall be governed by the rules and procedures in force in the State in which it is to be executed. Performance under this Contract shall however, continue during arbitration proceedings and no payment due or payable by the parties hereto shall be withheld unless any such payment is or forms a part of the subject matter of arbitration proceedings.

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

SpecificTerms & Conditions

<u>Encl.7</u>

Enq no. MP1/Hiring of DG/ICGS Varaha/CMSRU

- Payment 100% payment shall be released against invoice certified by Executing officer supported by service report and WCC and other mandatory documents, within 45 days from the date of submission of invoice after successful completion of the job scope. Payment shall be based on the actual utilization of the Gen-Set certified by authorised representatives of CMSRU.
- 2. Manpower has to be mobilized against CMSRU LOI/WO and work has to be commenced immediately as per the instruction of executing officer.
- 3. Vendors are strongly advised to visit work site prior to quoting.
- 4. Vendors should also be able to provide service at CMSRU, Mumbai and all the necessary passes to be arranged accordingly by the vendor.
- 5. Items related to works shall to be delivered at MBPA on door delivery basis.
- 6. Service has to be provided for a duration of 30 days from the date of commencement of work. If extended for a further period, payment shall be made on a pro rata basis subject to concurrence and approval from the competent authority.
- 7. CMSRU reserves the full right to change the work scope/amend the work scope according to the site condition.
- 8. Vendors should be able to carry out the work in CMSRU, Mumbai and should be able to follow the safety rules and regulations of the worksite accordingly.
- 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.
- 11. CMSRU have the full right to issue the work order based on overall L1.
- 12. L1 firm has to provide detailed price split up (if required) within 03 days from the date of confirmation from CMSRU.
- 13. The projected quantity may vary according to actual job scope. Hence final amount shall be calculated based on the actual work done certified by CMSRU executing officer.
- 14. Firm to provide necessary valid certificates (wherever required).
- 15. Firms should have related similar experiences of 07 years as per the work scope 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 Two Bid)** for avoiding discrepancies/confusions during the comparison stage.
- 19. Vendors are requested to submit a signed copy of Encl. 1,4, 5,6, 7,8, 9<u>along with</u> <u>unpriced Price bid format clearly indicating quoted/not quoted against each job</u> <u>scope with the Tech. bid</u> 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 provided by the contractor to workers
8.Induction class need to attended by the new workers

Deputy General Manager (CMSRU)

Seal & sign authorised person

	UNPRICE					
	MP1/Hiring of DG/ICGS Vara	ha/CMSRU	ENCL.8		Mantian Quatad	Net such a second XX
SI no.	Desriptin	Qty	UoM	Unit rate	Total rate	Not quoted against XX GST%
1	Hiring charges of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	30	Days			
2	Operational running charges with fuel (firm supply) of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	720	Hours			
3	Operational running charges without fuel (yard/vessel supply) of Gen-set (minimum 500KVA) with flexible mains power supply cable, fuel tank and other relevant accessories.	720	Hours			
4	Competent operator charges for working round the clock (1 No.)	30	Days			
5	Mobilization, demobilization & commissioning charges (including connection/dis- connection) of Gen-set along with cables, fuel tank and other associated accessories.	1	LS			
	TOTAL AMOUNT					
	TOTAL AMOUNT INCLUSIVE OF GST					

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.

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

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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.