



## FIRE & SAFETY PRECAUTIONS

(i) Necessary safety precautions, use of proper tools and equipment, including personnel protective equipment for contractors' men are to be arranged by the contractor for the safety of the personnel employed by them. Site-in-Charge in all matter related to safety at work and their site In-charge would be responsible for their safe working.

(ii) The Contractor shall take all reasonable precautions to prevent fire of any nature in the general vicinity of his operations and shall be held responsible for all damages from fire directly for his own activities or his employees.

Use of proper tools and equipments/kits for contractor's men are to arranged by the contractor at his cost for the safety of personnel deployed by the contractor.

(iii) The Contractor will arrange for all safety precautions/ provisions for their employees deployed for the job as required and as per statutory rules.

The Contractors workers will have to follow the following Safety & Fire norms

- a) Wear Boiler Suits, Safety Shoes and Helmets while at work.
- b) Ventilation must be arranged in confined spaces throughout the period of carrying hot work.
- c) Prior to commencement of hot work, surrounding (including other side of the bulkheads & decks) should be inspected for the presence of any inflammable materials.
- d) All inflammables waste like cotton waste, plastic, broken wooden parts, battens, jutes, cloths, papers/electrodes packets etc. should be removed by the contractors from the ship everyday.
- e) Portable Hand Lamp (maximum of 110volts) should be used on board vessel.
- f) All electrical connections should be of permanent type as far as possible. Plug & Sockets should be fitted for outgoing connections. Use of any electrical outlet without using a plug & socket connection is prohibited.
- g) Use of oil drums for staging purpose is strictly prohibited. Steel stools/staging materials are to be used for staging purpose.
- h) Painting work should not be undertaken, while hot work is in progress either in the compartments or in the adjacent areas.
- i) A board indicating "painting in Progress" in Hindi, Bengali & English be displayed near entrance of the compartment.
- j) While painting, only safety hand lamp fitted with insulated handle, wire case and glass cover over the lamp shall be used.
- k) While painting in closed compartments, one person must be posted near the entry point.
- l) Any moving part used in production should be provided with guards/covers.
- m) All welding cables, temporary light cables etc. should be properly insulated at all times.
- n) Damaged hoses should not be used for gas cutting work.



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- o) Gas line should be separated from welding cables & electrical cables should be laid properly.
- p) Welding Holders, if energized, should not be left unattended.
- q) All ventilation blowers should be provided with protective covers/guards.
- r) Chain Pulley Blocks/ Lifting Tackles/Rigging screws/Lugs etc. used in the production shall be duly tested.
- s) 440/220 supply lines should be provided with distinguishing mark & identified with red stickers at every meter distance. 440 volt should be covered by M.S. Angle.
- t) Contractors' workmen should wear badges for their personal identification.
- u) Full proof welding holders must be used in construction stages, considering successive fatal accidents caused from our hand made electrodes holders.
- v) All pneumatic grinding/electrical grinders should be provided with cover guards.
- w) During recess period(Lunch time and at the end of day's work) or when work is suspended for more than half hour, the gas hoses shall be disconnected from the cylinder valves.
- x) All gas equipment shall be subjected to "Water Dip" test daily before taking those on board. A record of the testing to be maintained by the person carrying out such test.
- y) Electric power shall be cut off from transformer end during process period & at the end of days work and whenever the work is stopped for at least half an hour.
- z) Wooden planks are to be provided on all the scaffolding with lashing arrangement.

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