

## **SAFETY GUIDELINES**

The contractor shall provide Personal Protective Equipments (like helmet, shoes, safety glass, nose mask and earplug etc.) as required to all his workmen strictly otherwise they will not be allowed to work.

Standard of personal protective equipments to be provided by the Contractor to their employees are indicated below.

1. HDPE/ABS Safety Helmet conforming to BIS 2925 and preferably fitted with inner strap of nylon webbing and 4/6 point suspension. Adjustable chin strap and ratchet both together ensures good grip on head while using. Sweat band of good quality having adequate absorbing capacity gives comfort to user for prolonged use at work area. Both the features should be available in Safety helmet and that must be ensured before issue.
2. Safety shoes conforming to required BIS
3. Dust mask conforming to required BIS
4. Full body Harness along with Lifeline and fall arrestor conforming to standards.
5. Optically correct Safety glasses conforming to standard. Lightweight safety glasses with side shield to protect against wind & ultraviolet ray with adjustable side arms for personalized fit.
- 6.1 Ear muff conforming IS: 6229
- 6.2 Ear plug or Ear seal (Unique closed cell polyester from smooth tapered surface similar to ear canal swells slowly to fit individual Ear canal.) (Any one item out of three types of ear protection device should be issued)
7. Flame-Water-Oil-Acids & alkali resistant work wear (made of 100% cotton fabric)
8. Safety gloves of Kevlar or equivalent (high temp. resistance)
9. Face shield (conforming IS: 8521 part I type-I)
10. Electrical hand gloves 440v & 33 KV conforming IS: 4770 or equivalent
11. Hand gloves for chemical laboratory made from pure latex Acid and Alkali proof
12. Hand gloves for concentrated chemicals made from superior PVC inside cotton reinforce for better grip
13. Split chrome leather hand gloves for handling rough object.
14. Canvas hand gloves for handling smooth object & doing light work with it.
15. Flip up goggles with stationery frame fitted with ophthalmic grade zero power toughened lens and fitting frame, Blue lens for furnace, Green shade No.4 for gas cutting, dark green No.11 for glasses for ARC welding whenever is required.
16. Panoramic type safety goggles for acid & alkali whenever is required.

Contractor shall ensure proper use of personal protective equipment by their workmen and supervisor on duty. Before issue of the above PPEs depending on the need of the area of work the sample of the same must be provided to LANCO, Safety Officer for inspection & approval.

The Contractor shall be issued entry pass for their employees after due verification of the quality of the standard PPEs and imparting necessary safety induction training in advance by Safety Officer, LANCO.

- None of the Contractor's employees shall be allowed inside the plant premises without valid gate pass, safety shoes, and helmet.
- Contractor shall ensure that all his employees use proper PPEs inside the plant premises as per the work & site requirement.
- During the course of execution of the work the contractor must ensure use of appropriate tested tools by their workmen. Safe working practice must strictly be followed, e.g. use of proper plug & socket for electrical connections, right size & standard spanner, right capacity and tested lifting & pulling equipment etc.
- The Contractor must ensure tidiness of the work place during & after completion of the work.
- In case of any doubt relating to safety guidelines, the Contractor should seek advice of Engineer-in-charge / Safety Officer immediately for clarification.
- The contractor must provide adequate first aid boxes at different locations and maintain a register to this effect.
- The contractor should follow proper fire fighting procedure while executing the work.
- The contractor must provide proper barricades for excavations & other hazardous areas with proper marking even during nighttime.
- The contractor should use proper & safe scaffoldings wherever required.
- The contractor should take utmost care & precaution while handling inflammable gases, compressed gases & explosives.
- Proper hand trolleys should be provided for gas cylinder handling.
- It is recommended to provide flash back arrestor on all the gas cutting sets (On Cylinder side and torch side) to avoid back fire.
- Double pressure gauge should be provided on the regulator to know and Control the cylinder pressure and pressure at the cutting torch.
- Preferably D.A. cylinder should be used.
- The persons working on gas cutting should be provided with safety goggles and safety hand gloves.
- It should be ensured that everybody working at height should anchor the Knob/hook of full body harness to a rigid support above D`ring of the belt. If there is no provision for anchoring, then it should be made.
- It is recommended to use safety net in the areas where lot of material Handling is being done and people are working below
- It must be ensured to barricade the area where the material is being lifted at height.

- The contractor should use proper fall protection equipments while working at height and guard the bottom area.
- The contractor should not use any non-standard ladder inside Plant premises.
- The contractor should use proper electrical & lifting tools having periodic testing & inspection.
- The contractor should follow Plant PTW procedure. Before starting any work the contractor \ should obtain the required clearance from the concerned authority.
- The contractor should follow all safety standards, codes, rules, regulations & acts as in force.
- The contractor must engage only experienced and qualified manpower to prevent any safety lapses during execution of the work.

17. The contractor shall compulsorily provide personal protective equipment's (PPEs) to his employees & in the event of his not providing the same by date specified by EIC or as mentioned in contract, it will be provided by LANCO at contractors risk & cost. The cost of such PPEs provided by LANCO shall be recovered from contractor's bills at 'Double rates' as a measure of penalty.

18. All necessary personal safety equipment as considered adequate by the engineer-in-charge or the safety officer of LANCO should be made available at contractor's cost for use by the persons employed on the site and be maintained in a condition suitable for immediate use. The contractor should also give sufficient safety training and instructions to his workmen and ensure proper use of safety equipment by those concerned.

19. The contractor and their workers shall follow all safety rules while working so that there should not be any accident, which may cause loss of life or damage to LANCO's property. Contractor shall be fully responsible for accident occurred in the absence safety conditions mentioned herein & informed by EIC time to time. Contractor shall also take insurance cover for workmen compensation for the workers employed by him at his own cost.

20. The contractor has to make his own arrangement for T&P safety appliances and consumable required for the above job if not specifically mentioned otherwise.

#### 21. PRE-EMPLOYMENT MEDICAL CHECK-UP

Contractor shall arrange for medical checkup of all employees before employment and shall ensure that no person with any of the following diseases is employed by him at the LANCO site.

- Epilepsy
- Colour blindness/Night blindness
- Deafness

Eye-sight of the employees in the following category shall be examined every six months.

- Crane operators
- LMV/HGV drivers
- Heavy earth moving equipment operators.

Records of such medical checkup shall be maintained and made available by contractor for inspection of LANCO at any time.