**WORK INSTRUCTIONS DURING GAS MASK OPERATION**

**Responsibility:** User Engineer

**Identified Hazards:**

1. Fall of a person causing injury
2. BF Gas poisoning
3. Contact with dust
4. Fall of material
5. Contact with hot metallic shell.
6. Nonuse of PPE, WI
7. Improper house keeping
8. Inadequate local lighting
9. Running in panic & getting hurt
10. Not carrying CO detector
11. Smelling of BFG
12. Crowding at the job site

**Significant Aspect:**

1. Uses of Compressed Air

**Procedure**

1. Use all PPEs before going for gas inspection & inspect for any overhanging material before starting job.
2. The system should be kept on hand by distance of the user. It should be on passage of entry to the hazardous area.
3. The key to the container of the system should be close to the container.
4. The air pressure should be maintained 0-10 kg on the air line before filter regulator. The working pressure should be set to comfortable range through adjustment and fine tuning to the satisfaction of the user. Positive pressure to be maintained to avoid ingress of gas inside the mask.
5. Drain valve should be pressed to decontaminate the filter chamber by depending on the density of the contaminated and time of use.
6. The face piece should be cleaned by using a liquid soap solution after every use to avoid the decomposition of the contaminates.
7. Attention should be given to the quick release valve before use to avoid bursting and leaking of air.
8. User should have clean face with saved beard to avoid entry of the contaminated from the side of the face piece.
9. User should be well trained to use the system.
10. Ensure the proper illumination of the area to be inspected by gas mask
11. Ensure CO detector is carried to monitor the gas level.
12. Ensure while working in dust catcher or in any enclosed area top firing of furnace has been done, area is properly purged by steam and ventilated by keeping all inspection door open. Keep both upper bell and bottom plate of dust catcher &, relief valve open. Also ensure no cutting & welding job is going on the gas line.

**CLEANING OF THE BREATHING APPARATUS COMPONENTS**

1. The breathing apparatus components should be regularly cleaned.
2. cleaning of the apparatus should be done by tepid water and natural soap.
3. during cleaning of the apparatus wash it vigorously, rinse thoroughly with water and hang up to dry in the open air.

**LOCATION OF BREATHING APPARATUS**

**BF#1 control room**

**BF#2 control room**

**OPERATIVE PROCEDURE FOR PORTABLE BREATHING APPARATUs**

**PROCEDURE BEFORE USING PORTABLE CYLINDER**

1. Don the apparatus by slipping on the shoulder straps previously loosened as follows
   1. To shorten the shoulder straps, insert your thumbs in the rings attached to the ends of the straps and pull them
   2. To lengthen the shoulder straps, insert your thumbs under the release clasp of the adjustable buckles and lift upwards; any excessive length can be recovered by re-tightening the shoulder straps as above described
2. Claps the quick-release buckle of the waist belt without locking it in order to discharge the weight on your hips.
3. Claps the quick –release buckle of the chest strap and pull the free end in order to adjust length.
4. Adjust the shoulder straps shortening them as above described, adjusting the apparatus to the correct position over the shoulders.
5. Adjust the belt by pulling the ends of it.
6. Tighten the front, if necessary.

## After completing the above procedures, put on the mask as follows

1. loosen the head harness as much as possible by using the adjustable buckles
2. Using your thumb and forefinger of both hands; stretch the two cheek straps,
3. Place your chin in the groove of the mask.
4. Draw the mask closes to the face; pull the harness over the head and tighten by pulling the head straps backwards until the rim of the mask presses firmly against the face.
5. The mask is perfectly donned when the harness straps and aligned with the connections of the mask itself.

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| **Prepared By:**  Head – Production PID I | **Reviewed & Issued By:**  Management Representative | **Approved By:**  Head – Pig Iron Division |
| **Signature:** | **Signature:** | **Signature:** |
| **Date: 15.07.2022** | **Date: 15.07.2022** | **Date: 15.07.2022** |

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