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Regd. Office: Plot No-6/1124, Ranasinghpur, BBSR, OD, INDIA, 751019

Factory: Gat No-1532, Jyotiba Nagar, Talawade, Pune, MH, INDIA, 411062

Website: www.glosetindia.com, **Email:** support@glosetindia.com

CIN: U74140OR2014PTC018128, **Mob:** +91 94220 94221

PIPING ABOVE GROUND INSTALLATION WORK PROCEDURE | METHOD STATEMENT

1.0 PURPOSE

1.1. This work procedure and method statement shall provide minimum guidelines to carry out the Aboveground Piping Installation Works activities for piping or mechanical engineers, procedures In accordance with contract scope of work and project specification.

2.0 SCOPE

2.1. This Method Statement covers the procedure of Aboveground Piping Installation Works.

3.0 APPLICABLE DOCUMENTS

1. Piping Material Specification
2. Identification of Piping Materials
3. General Specification for Insulation
4. Construction Specification for Installation of Static Equipment
5. Construction Specification for Installation of Rotary Equipment
6. Construction Specification for Piping Work at Prefabrication Shop
7. Specification for Piping Construction Work in Field
8. Piping Pressure Test Procedure
9. Line Check Scope of work
10. Piping Internal Cleaning Procedure
11. Bolt Tensioning Procedure
12. Piping Spool Drawing Preparation and Weld Joint Registration Procedure



13. ISO/Spool Drawing and Data Handling Procedure
14. Supplementary Specification for External Coating
15. Supplementary Specification for Safety Identification and Safety Colors
16. Supplementary to SAES-A-206 Positive Material Identification
17. Material and Equipment Protection Program at Work Site
18. Detailed Material Control Procedure for Piping Material at Field
19. Material Traceability at Site (Construction Phase)

3.5. Standard Drawing / Latest Revision Documents

- 3.5.1. Piping and Instrument Drawing (P&ID)
- 3.5.2. Piping General Arrangement Drawing
- 3.5.3. Pipe Support Detail Drawing
- 3.5.4. Isometric Drawing (Full Isometric)
- 3.5.5. Spool Drawing (Spoolgen Generated)

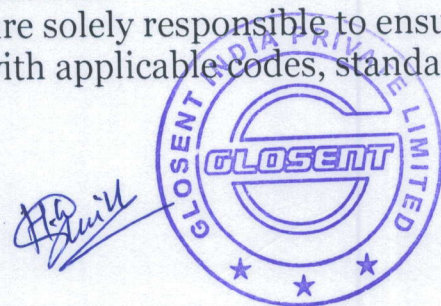
4.0 RESPONSIBILITY

4.1. Construction Manager shall implement all HSE requirement for the job, study, analyze and schedule all construction activities with his department to include manpower and equipment line up as well as other possible resources required for the successful implementation of the construction work activities. He shall study all aspects of work procedure as per Technical Scope of Work.

4.2. Piping Superintendent shall study and review all necessary documents for the installation works to include, technical scope of work, specification, bill of quantities, planned milestone dates and construction procedure to support to his supervisor. He shall monitor the availability of materials in accordance with construction schedules. He shall directly report to construction Manager.

4.3. Piping Supervisor shall be directly reporting to the Piping Superintendent and responsible for the implementation and control of all site activities per Technical Scope of Work and latest approved construction drawings. He shall coordinate with other discipline to visualize possible conflicts in the drawing as well as in the schedules to provide other options in preventing unnecessary delays and obstructions.

4.4. The Welding Supervisor and Foreman are solely responsible to ensure that all welding works are in conformance with applicable codes, standards, specifications and approved procedures.



4.5. Piping Foreman shall be responsible for the direct work supervision at site and ensure that the work is performed in accordance with Technical Scope of Work and latest approved for construction drawings. He shall monitor the availability of materials in line with his required schedule at site and reports directly to Piping Supervisor.

4.6. QC Inspector shall be responsible for inspection and monitoring of the work and ensure that the work is performed and properly documented in accordance with Project requirements.

4.7. Safety Supervisor shall be responsible for monitoring safety aspects and ensuring that the work is done in accordance with Safety Standard Procedure. He shall discuss with the workers the characteristics of related materials and status of work area giving reminders as an additional point to work safely.

5.0 MANPOWER

5.1. The Piping Superintendent shall control the overall activity of Piping Aboveground Installation Works. The basic manpower under him shall consist but not limited to the following:

5.1.1. Piping Supervisor

5.1.2. Piping Foreman

5.1.3. Welding Foreman

5.1.4. Pipe fitters

5.1.5. Welders

5.1.6. Crane Operator (ARAMCO Certified)

5.1.7. Rigger (ARAMCO Certified)

5.1.8. Helpers

5.2. Safety Engineer/Officer

6.0 TOOLS AND EQUIPMENT

[Handwritten Signature]



7.0 MATERIAL RECEIVING, STORAGE AND PRESERVATION

7.1. Material Receiving

7.1.1. Piping materials delivered shall be checked and inspected in accordance with applicable SAIC and JGC Specification no. S-000-3160-002 Section 4.0.

7.1.2. Ascertain materials by checking the stencil, colour code etc. prior to use of material. The size and rating shall conform to the related drawing and/or specifications. SAACO shall be responsible for keeping all vendor markings and other identifying information after receiving of the material. When a length of pipe is cut from a longer pipe, SAACO shall transfer to each length of pipe all vendor markings including heat number and other identifying information.

7.2. Material Handling / Storage

7.2.1. All materials shall be handled with care during installation to prevent damage.

7.2.2. Wide fabric slings shall be used for lifting lined and coated pipe and fittings to prevent damage as per SAES-H-200.

7.2.3. Special attention shall be given to protection of flange(s) faces to prevent any damage, by ensuring that flanges received from aware house are properly protected. Stainless steel and non-ferrous alloy pipe / fitting shall be stored and handled with special care to avoid any contamination and should be kept away from carbon steel material including carbon steel grinders, blush and the likes.

7.2.4. Flange face serration shall be made as per S-000-1360-003 (Flange Facing Finish) or piping engineer to approve at site, if flange face damaged.

7.2.5. Pipe shall be placed on any type of dunnage. Pipe shall not be stored directly on the ground.

7.2.6. Stacking of pipe shall be made in accordance with vendor preservation procedure to avoid damage to pipes or coating.

7.2.7. End protectors on pipes, flanges, any fittings, weld bevels, threads, and socket ends shall be firmly attached.

7.2.8. Contamination between carbon steel, stainless steel and non-ferrous alloy shall be avoided. aaaz

