

PROJECT: SP INFOCITY, BULDING -7

CLIENT- SPCL

WORK METHOD STATEMENT

ACTIVITY	INSTALLATION OF FPS EXTERNAL HYDRANT PIPING BY MANUALLY AND FARNA CRANE
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REV	DATE	REVISION	PREPARED BY SUFSIPL	REVIEWED BY SUFSIPL	REVIEWED BY SUFSIPL
0	03/02/2021	Issued for Approval	Gaurav Shah	Dattatray Suryawanshi	S.K Vimalanandh
Designation:			Site In- Charge	Manager- Safety	Sr. Project Manager
Signature:					
Date:					

REV	DATE	REVISION	REVIEWED BY SPCL	APPROVED BY SPCL	APPROVED BY SPCL
0	04/02/2021	Issued for Approval			
Designation:			Project Engineer	Project Manager	Safety Manager
Signature:					
Date:					

- **Scope & Objectives**

- Unloading of FPS hydrant GI 150NB pipes by Farana crane at the site premises & respective working locations.
- Shifting of pipes and accessories to working locations by manually or Farana as per the work activity requirements.
- Lifting & installation of pipes on the fabricated supporting structure by using Farana crane.

- **References**

- Project documents, viz. Quality plan, EHS plan, Technical Specification of the project materials.
- As per approved latest revision of drawings & as per project specification.

- **Machinery & equipment's**

- Farana Crane
- Lifting belts and other lifting appliances & accessories.
- Guide line rope for pipe, Material
- Scaffolding required as per site condition & work activity requirements.
- Welding/ grinding/ cutting machine – required as per the work requirement.

- **Control Measures**

- All Vehicles/ Farana crane has verified documents (Form no.11, insurance etc.) or driver license.
- Vehicle / Farana check list filled by HSE person / Site Engineer.
- All workers should be allowed for work after complete gate pass and safety induction training procedure.
- Good quality material to be used for installation for FPS piping.
- Ensure all lifting tools tackles and electrical machineries should be check before start of the work and maintain the record.

- **Work Location/Access Requirements**

- Work location should be clear for any hazards like live cable at height or lying down existing material stacking or other obstructions.
- Signal man will be available with the crane during the lifting shifting work.
- Life line should be available for the workers if there any falling condition.
- Proper illumination should be available for lifting work location.
- Deployed only trained riggers for piping lifting shifting activity.
- Workers who will be involved in this activity should be provided with sufficient PPEs such as safety helmet, safety harness, safety shoes, safety goggle, hand gloves, etc.
- Proper visible signage's placed at locations of hazards.
- Check for the availability of space for vehicle movement and planning the same.

- **Work Methodology**

- Installation of hydrant piping supports as per the approved drawings & technical approvals.
- After supporting work completed shifting of hydrant pipes to respective working location by manually (hand trolley) or with the help of Farana Crane.
- Lifting & installation **6 Mtrs or 12 Mtrs** fabricated external hydrant piping on supporting structure by manually or with the help of Farana Crane.
- All external hydrant piping will be installation on one-by-one sequence and the same procedures.
- After resting the pipes on supports proper alignment will be done by fitter and proper fixed U clamping shall be done.

- After alignment & clamping all header the final welding work will be start with taking all safety precautions and quality protocols.
- Lifting Proper access path should be assigned for the movement of crane for avoiding uneven surfaces.
- Workers who will be involved in this activity should be provided with sufficient PPEs such as safety helmet, safety shoes, safety goggle, hand gloves, apron etc.
- Barricading/unauthorized entry restricted during such activity in progress.
- Hydraulic system of outriggers to be in a proper working condition.
- Trained signal man should be deployed for the work to guide the crane operator while movement of the crane.
- The length of Rope will be approximately 45 to 50 Meter for Guiding Purpose.
- Web-sling must be tied for the lifting at both side equal lengths.

- **Inspection Procedure**
 - All lifting Equipment's & appliances should be inspected form third party and valid form No. 11 with valid date.
 - All lifting appliances safety inspection should be done by safety officer before the activity startup as per the safety inspection checklist.
 - Vehicle / Farana safety inspection shall be done by safety officer / site engineer before the work start and daily visual safety inspection done by the driver and supervisor.
 - Ensure all PPE's should be inspected and its good condition.

- **Documentation Required**
 - Lifting activity work permit shall be available at working location.
 - FPF hydrant piping approved drawings & plan.
 - Lifting activity related TBT shall be available at working location while working.
 - Tools Tackles safety inspection checklist shall be available at site.
 - The vehicles which shall be used on site like: - Farana Crane, Scissor lift should have fitness certificate, Drivers license, valid insurance, form-11, fitness certificate issued by competent authority etc.

- **Quality assurance**
 - Activity shall be compliance with approved Quality plan.

- **Health and Safety Hazard Assessment**
 - An organization structure, emergency contacts details should be display in a position nearer to the working area.
 - Deployed only trained lifting supervisor for lifting activity & barricade the lifting area before the lifting activity start.
 - FPS piping installation related safety trainings shall be conduct with all involved team before the activity start.
 - First-Aid kit should be available at site & site office.
 - Proper lighting shall be provided for working at night.
 - An electrician (license holder) should be engaged for all electrical related works.
 - This does not relive the Contractor from the contractual obligations entrusted on m/s SUFS.
 - Use of mandatory PPE's (Safety Helmet, Apron, Safety Shoes, Safety Harness, Hand Gloves, Etc.)

