**Project Name : JCB India Limited (Ballabgarh)**

**Package Name : MS Container.**

**Location : JCB India Limited (Ballabgarh)**

**Quantity : 2 No’s**

**METHOD OF STATEMENT**

**FOR BUS BAR ANGLE WELDING & COLUMN MARKING AND DRILLING**

**…………………………………………………………………………………………………..**

**Submitted By : Sparkline Equipments Pvt, Ltd.,**

**Plot No-38, F-2 Block, MIDC, Pimpri,**

**Pune-411018**

**Approved Rejected for Resubmission**

**Approved By**

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| **Date** | **Prepared by** | **Checked by** | **Signature** |
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**Project Manager**

**For, SPARKLINE**

**For, JCB INDIA LIMITED**

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**1. Scope :**

This method statement refers to “**Welding of Bus Bar angle in Bay-4, & Column Marking & Drilling”.**

**2. Purpose :**

The Purpose of generating this method statement is to define the procedure to implement the standard/correct practices for welding of Bus Bar Angle in Bay-4, & Column Marking & Drilling.

**3. Definitions & Abbreviations :**

Project : JCB INDIA LIMITED.

Client : JCB INDIA LIMITED (Ballabgarh).

Contractor : Sparkline Equipments Pvt Ltd

Sub-contractor: Sparkline Equipments Pvt Ltd

1. **References :**

Overhead EOT Crane erection with structure from Sparkline Equipments pvt. Ltd.

**5. Safety :**

5.1 Work permit to be taken prior to commencement of work.

5.2 Supervisor shall be present to guide the worker.

5.3 PDCA (Plan Do Check All) to be done to control occurrence of injuries as well as damage to equipment and properties during the unloading of both container’s.

5.4 All necessary safety equipments used for welding should present at site.

5.5 Safety protocol will be implemented as follow.

* Work place will be barricaded by Warning/danger tape.
* Prior to using any machine/equipment at site, ensure that they will be inspected and certified by qualified person.
* Personal Protective Equipment will be issued and wearing to all workers such as Reflective jacket, safety shoes, safety helmet, Goggles, Safety belts with double harness& scaffolding hooks , throughout lifelines, first aid box, fire extinguishers and proper access to the work place.
* Regularly check for any possibilities of unsafe working condition & act.

**6. Key Personnel :**

Site Supervisor : Mr. Suresh Rathore

Project co-coordinator : Mr. Yogesh Damor

Safety Officer : Mr. Anmol Choudhary

**7. Responsibilities/Duties**

**7.1** **Project \ Site Manager (Engineer-In charge):**

7.1.1 Ensure all required submittal area made and required plant/tools/material and manpower is available in timely manner.

7.2.2 Ensure all execution of works area carried out according to approvals, contract specifications, approved shop drawing, MS and safety measures are all implemented.

7.3.3 Ensure necessary coordination with all involved for timely completion of job.

**7.2 Site Engineer:**

7.2.1 Timely provision of relevant and complete information, approved documents and instructions to site execution / installation team.

7.2.2 Proper execution of works as per approved documents, Ms Drawing and adopt all safety measures as required.

7.3.3 The implementation of the procedures mentioned in MS with the help of concerned site engineers / site supervisors.

7.4.4 To carry our site work activities with regards to Quality and safety requirements coordination with regional quality and safety representatives.

**7.3 working hours:**

Monday to Saturday morning 9:00 AM to 6:00 PM

Sunday Morning 9:00 Am to 6:00 PM (if required)

**7.4 Safety Officer:**

7.4.1 Ensure implementation of all safety measures and procedures specific to the mature and type of execution work being carried out at site.

7.4.2 To ensure that all project personnel / site execution team is fully aware of their responsibilities and have full understanding of related safety rules, procedures.

7.4.3 To advise the involved personnel about the risks involved and necessary HSE precautions / measures to prevent it.

7.4.4 To maintain continues inspection / surveillance of site activities, Implementation of HSE precautions / measures to prevent it.

**8. Preparation of work & Execution :**

**A. Arrangement of Welding Machine at site:**

* Place the welding machine near/below of nearest column where welding work will carried out.
* Provide three phase power supply to the machine, put Earthing & Holder cable into the machine also check for proper earthing to the welding machine.
* Ensure that there is no cut or joint in between power cable, Earthing Cable, & Holder Cable to prevent from electric shock.
* Ensure that welder must wear its safety equipments like welding helmet, welding gloves, etc.
* One person should be present below of the scaffold to take care of the welding spatter and to shift all welding cable as per requirements.

**B. Welding of Bus Bar Angle:**

* As per our standard starting from one end of the gantry we will left 1 meter for first angle .
* Now maintaining 2 Meter distance between each angle remaining angle will be weld.
* To maintain proper alignment ensure that line dori/piano wire must fix between two angle weld at two extreme point of the gantry.
* Right angle will also used along with line dori to ensure it’s proper alignment.

**9. Tools & Equipment:**

Tools & Tackles required for this activity as per listed below.

* 3 Phase welding Machine – 1 No.
* Earthing Cable - 5 Meter.
* Holder Cable - 25 Meter.
* Power Cable – 30 Meter.

1. **Mandatory PPE’s & Safety Requirement’s:**

The following mandatory PPE shall be used for the work:

10.1 Welding Helmet.

10.2 Safety shoes.

10.3 Reflective jacket.

10.4 Welding Gloves.

10.5 Safety Belts with Double harness.

10.6 Barrication Tape.

10.7 Certificates for all tools & tackles.

**11. Safety Measures**

**Suggested safe system of work:**

* Ensure work place free from hazards.
* Every morning conduct Tool Box meeting to review the site work.
* Regularly monitor the health of all our staff working at site.
* Ensure all equipment condition is good and checked by responsible person.
* Ensure to get separate work permits for Hot or Cold or Height work, before starting any work.
* Ensure only trained and experienced manpower are engaged for specified work.
* Ensure proper usage of PPEs throughout the job.
* Supervisor shall be present to guide workers.
* Type of job to be performed on site will be mentioned in Work permit.
* Barricaded tapes will be highlighted in the area of work.
* Adequate lights will be fixed in view of poor lights during working condition.
* All required test certificates will be cross checked for winch machine.

**NOTE: IN CASE OF ANY SUGGESTION PLEASE UPDATE.**