

## **N40084-11-R-0001 SOURCES SOUGHT – CRANE, SASEBO**

The below is a brief Project Synopsis:

### **BACKGROUND.**

The intent of this design build specification is to replace an existing 50/25 metric ton capacity electric hoist/trolley and controls on the overhead bridge crane # OH-9-1 located in building 480 of SRF-JRMC Detachment in Sasebo Japan. The existing double girder bridge frame structure provided by Ishikawajima Heavy Industries Co., Ltd. shall be utilized, but modification of existing footwalks and handrails must be performed to maintain safe access as necessary. **The new crane will have a downgraded capacity of 45 ton on the main hoist.**

**SCOPE.** The Contractor shall furnish all labor, management, supervision, tools, materials, equipment, incidental engineering, and transportation necessary to design, fabricate, and install the new hoist/trolley and to test one (1) bridge crane. Remove the existing main/auxiliary hoist/trolley unit from the subject OET crane (OH-9-1) and install new package hoist/trolley and install new disconnect switch and runway conductors (Bridge Electrification) to provide sufficient capacity for simultaneous operation of all crane functions. The intent is to minimize the Contractor's overall on-site time and space requirements in order to minimize disruption to ongoing production activities. The crane shall be designed and built in compliance with all federal regulations, Crane Construction Standards, and Japan Industrial Standard (JIS) applicable to this equipment and it shall be installed, tested and fully operational upon completion of the project.

### **CRANE SUMMARY.**

110,231/55,115 lbs OET bridge crane (OH-9-1)

Span: 7050 mm

Runway Length: 66.03 m (approximately)

Capacity: Main Hoist: currently-110,231 lbs; new capacity-99,207 lbs ,

Auxiliary Hoist: 55,115 lbs

Crane type: Top running bridge, double girder OET with top running trolley/hoist

Crane and Hoist Classification: CMAA 70, Class D or JIS C9620, Grade M6

Bridge High Speed: 2.5 - 25 m/min, Inverter control

Crane Drive: Variable Frequency Drives (VFD) with VFD rated motors

Trolley Low-High Speed: 1.0 - 10 m/min

Trolley Drive: V/F Control

Hoist Low-High Speed: 0.32 - 4.5 m/min (Main), Inverter control

Hoist Low-High Speed: 0.48 - 7.5 m/min (Auxiliary), Inverter control

Hoist Type: V/F Control with Dynamic braking (Currently Open Loop)

Hoist lift required: 7.942 m (Main), 8.722m (Auxiliary)

Control: Pendant control from independent track on bridge

Power Supply: 440 volt, 3 phase with grounding wire, 60-hertz