



JACOBS Technology
ROME Group Engineering
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Statement of Work

Date: July 6, 2010 **Revised July 10,2010**
ROME Tracking No.: AN02737
Project Title: Provide Utilities for New AgieCharmelles FI 640 CC EDM Wire Machine Building 1225

Scope:

This task will take place at Building 1225. The task requires the subcontractor to provide all material, labor and equipment to provide utilities for new AgieCharmelles FI 640 CC EDM Wire Machine.

- All utilities, including power, air (two hoses), water (one hose), and chilled water (two hoses), shall be routed to the rear of the new EDM machine via a new cast-in-place concrete trough in the floor (7' Long x 9" Wide x 6" Deep).
- The trough shall be covered by removable checker plate. Checker plate supports shall be of sufficient quantity to eliminate plate flex during personnel traffic.
- The hoses and connections shall be provided by others.
- Utility air shall be hard piped from the overhead service down to near floor level culminating in an isolation ball valve and two downward facing quick disconnects at the head of the trough.
- Utility domestic water shall be hard piped from the overhead service down to near floor level culminating in an isolation ball valve and hose barb at the head of the trough.
- The EDM machine, stand alone chiller and transformer shall be provided by others.
- The data line shall be routed to the front of the EDM machine via a 1" conduit buried below floor level (11' Long x 6" Wide x 6" Deep).
- A pull string shall be provided by the contractor.

The electrical tasks for this project are as follows:

- Relocate single 480V outlet and wiring.
- Relocate 480V 30A Disconnect and wiring.
- Install new wire and conduit from transformer to top of ESD machine
- Remove existing power and data wiring that is in the middle of the floor.
- Cut conduit at slab, and fill conduit with concrete.
- Install 1" data conduit in slab with pull string.
- **The existing disconnect switch will be relocated and mounted on uni-strut, instead of being mounted on the side of the transformer.**
Connect electrical power wire between transformer and new EDM Wire Machine.
(The new equipment is to be deliver to NASA in November 2010)

Paint Floor Proposals:

The floor is to be properly cleaned, etched and painted with an epoxy paint.

The area to be painted is 30' by 27'-6" as defined on the drawing.

The current equipment, decks, cabinet and other will need to be moved by NASA.

The floor is to be painted after the utilities are installed but **before** the new equipment is install.

The floor is to be repainted after the equipment is installed in any and all areas scratched, scuffed or marked when the equipment is set in place.

The above items are to be installed and completed to match the notes on the details drawings.

Technical Submittals

The Subcontractor shall be responsible for submission of all Technical Submittals listed in this work package. Submittals shall be submitted to ROME within 10 working days from notice to proceed. ROME organization shall be responsible for reviewing and certifying that submittals are in compliance with contract requirements. Approval authority on submittals is the Project Manger unless otherwise specified for specific submittal. Government approval shall be required for submittals with a "G" designation.

The Subcontractor shall submit Technical Submittals as required by ROME for all test reports, shop drawings, equipment data sheets, worker qualifications, and any other technical data under an original cover letter with copies as required by the project specifications. Submittals required to Engineering Files (MS/219) shall be submitted between 12:30 – 4:30 p.m. Monday through Friday. Samples shall be accompanied by a cover letter and appropriate copies from ROME upon request.

All submittals, correspondence and invoices shall be clearly marked with the assigned contract number (ex. AN02345). Unless otherwise specified, the Subcontractor shall submit an original and five copies of all submittals and correspondence.

At a minimum, the Subcontractor shall be responsible for the following Technical Submittals:

1. Safety Plan
2. Worker Qualifications
 - A. Mechanical
 - B. Electrical
3. Equipment Data Sheets
4. Environmental Disposal Plan; G

List of Submittals:

Safety Plan

Quality Control Plan

Work Plan
Mechanical Qualifications
Electrical Qualifications
Technical Data Sheets

In accordance with OSHA 29 CFR 1910.1200 and 1926.59, the Contractor shall have a Hazard communication program and, when applicable, an MSDS available for each chemical, oil, lubricant, or solvent used on site. the contractor/subcontractor must submit the current MSDS< Material Safety Data Sheet, For chemicals brought on and used on center, along with information on storage location and quantities, and the location of use for those chemical(s) to ROME for submission to NASA EMB, Environmental Management Branch, at least 10 works days before it (they) is (are)needed. The quantity of chemicals used during the project shall be submitted to ROME within 10 work days from the completion date of the project. This information shall be made available at an onsite location or by other LaRC approved methods.

This job can be performed during normal working hours. Normal working hours at NASA LaRC is from 7:00 a.m. – 3:30 p.m. Monday thru Friday. Any work being performed outside of normal working hours is considered after hours work and requires an on site security escort at all times. The intent to work after hours must be pre-approved during bid proposal. All scheduling must be coordinated through the construction manager prior to the start of work. All ROME sub-contracting employees must attend the ROME safety training, performed on Tuesday mornings at 7:30 a.m. at 5 Manhattan, approximate length is 3 hours. Employees must also attend the NASA safety training in order to receive a temporary badge. NASA safety training is held every morning at 7:30 a.m. at Building 1238, approximate length is 45 minutes.

All statements made herein shall be field verified by the subcontractor before ordering material or accomplishing work.

Bids shall include estimated time to complete job and delivery time of parts if applicable. Bids shall include all local and Virginia state taxes. Bids shall include all applicable shipping & handling charges.