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Name of Offeror or Contractor:

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C-01 The Contractor shall provide and deliver to Edgewood Chemical Biological Command at Rock Island, IL, one each, Six-degree-of-freedom (DOF) simulation table for simulation of truck transport of packaged commodities over rough terrain.

C-01.1 The minimum specifications are: 1,000 pound payload, 10G vertical acceleration, 3G lateral and longitudinal acceleration, +/- 4-inch vertical displacement, +/- 5-inch lateral and longitudinal displacement, +/- 7-degrees of table angle, 50-inches/second vertical velocity, 64-inches/second lateral and longitudinal velocity. Proposed systems must be a complete ready to run system to include all necessary hydraulic sources, hoses, and fluids as well as controller electronics and software. GFE will be limited to electrical power, water source for cooling, and appropriate seismic mass. All hydraulic system components must be fatigue rated.

C-01.2 Data Acquisition channels for payload monitoring is desireable, but is not required. The requirement is to provide enough channels to control the motion of the table.

C-01.3 The upper frequency range is desireable at 200Hz.

C-01.4 The shaker table dimensions shall not exceed 54-inches of height, 8-feet of length and 6.5-feet of width. The specification is for the height of the table from the mounting point to be 54". The table will be mounted in a pit to bring it to roughly a 20" height above the floor to match equipment heights of other mechanical shakers in the lab.

C-01.5 The controller system must allow for closed-loop sine, random and replication of measured environments. A 6-axis digital controller is required.

C-01.6 The approximate dimensions of the test platform will be 5-foot x 5-foot. The primary function of this simulation table will be to simulate lose cargo transport over rough terrains.

C-01-7 The typical test is a thirty mile road hazard course over unimproved surfaces, therefore normal test duration should not be longer then 2 hours, total yearly hours is anticipated to be around 300 hours. The Multiple Access Simulation Table not be required to handle contact with corrosive or hazardous materials during payload failure.

C-01.8 The Contractor is responsible for onsite installation and initial checkout. The Contractor shall include two hardcopy sets of technical manuals to include operation, calibration, trouble shooting and maintenance and any drawings needed to supplement those sections. One copy on a standard 700MB writable CD is also required. A minimum of three days of onsite training shall be included to cover basic operation, calibration and maintenance.

C-02 FOB: Destination

C-03 The Contractor shall make delivery on or before 2004MAR31.

*** END OF NARRATIVE C 001 ***

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SECTION F - DELIVERIES OR PERFORMANCE

F.1 The POCs and Ship To Address are:

Research Development and Engineering Command-Rock Island (ECBC-RI)
ATTN: AMSRD-ECB-END-S (Mssrs. William R. Meyer or Nino L. Bonavito)
Building 61
Rock Island, Illinois 61299

william.r.meyer@us.army.mil 309-782-5404
nino.bonavito@us.army.mil 309-782-3809

F.1.1 The Contractor shall coordinate the points of delivery with the POC.

F.2 The Contractor shall as specified on each DO.

F.3 FOB: Destination.

F.4 The Required Delivery Date (RDD) is 2005MAR31.

*** END OF NARRATIVE F 001 ***

