MAINTENANCE & REPAIR STATEMENT of WORK

Frankfurt, Germany

PROCUREMENT AND INSTALLATION OF A DUST EXTRACTOR DEVICE FOR THE CARPENTRY WORKSHOP

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U.S. CONSULATE GERNERAL FRANKFURT, GERMANY
FACILITY MANAGEMENT

PART ONE – GENERAL

C.1.1 SUMMARY:

A. The U.S. Consulate General Frankfurt requires PROCUREMENT AND INSTALLATION OF A DUST EXTRACTOR DEVICE located at Joachim-Becher-str.19 at the Carpentry Workshop. The Contractor shall provide all necessary labor, materials, supervision, and equipment to complete the project. Work includes but is not limited.

1. Dismantling: Remove old Nestro extraction system
2. System Installation: Procure, deliver and install DUST EXTRACTOR DEVICE
3. Ductwork: Completely adapt/modify duct system
4. Piping: Reroute extraction piping within the facility
5. Technical Labor: System assembly + duct installation by technicians
6. Transport: Travel to/from site & travel time
7. Electrical Work: Install sub-distribution panel + control cabling

C.1.2 SUBMITTALS:

A. Contractor's crew individual identification information for visitor access requests.
B. Submit list of all subcontractors with evidence of subcontractor's insurance coverage.
C. Project schedule showing work phasing and proposed daily progress.
D. Material manufacturers and accessory product data sheets in accordance with part two.
E. Shop Drawings and calculations.
F. Warranty: The Contractor shall provide a written 5 Years workmanship warranty after date of substantial completion to cover all elements of work to be free of defects. Manufacturers' standard material/equipment warranties are to be provided for all new items.

C.1.3 CONTRACT ADMINISTRTION

A. The Contractor shall not perform any work outside this Statement of Work unless authorized in writing by the Contracting Officer (CO).
B. The CO will issue a Notice to Proceed (NTP).
C. The Contracting Officer's Representative (COR) will oversee daily execution and ensure compliance.
D. Any proposed changes must be submitted in writing and approved before work proceeds.
E. The Contractor shall identify a Project Site Manager who shall be responsible for the overall management of the project and shall represent the Contractor on the site during construction. The Project Site Manager is required to be German and English-speaking and shall be approved by the COR.

C.1.4 QUALITY CONTROL:

A. The Contractor shall be responsible for the professional quality, technical accuracy, and the coordination of all construction and other services furnished under this contract. The Contractor shall, without additional compensation, correct or revise any errors or deficiencies in its construction and other services.

B. The Work shall be governed by the U.S. Consulate General Frankfurt, Germany. All work is to be in compliance with International Codes and standards, which includes the most recent published edition of the OBO Building code, National Fire Prevention Association (NFPA), International Fire Code (IFC), International Building Code (IBC) , International Mechanical Code (IMC), International Plumbing Code (IPC), National Electrical Installation Standards (NEiS), National Electrical Safety Code (NESC), Standard for Electrical Safety in the Workplace (NFPA-70E) and National Electric Code (NFPA-70) as amended by OBO, also are applicable. Should there be a discrepancy between the US Government Specifications and the applicable Building Code, the more stringent of the two shall govern.

C.1.5 STORAGE OF MATERIALS:

A. The Contractor is responsible for safe and secure storage of materials.
B. On-site staging must be coordinated with the COR.
C. Temporary utilities must be connected and disconnected in coordination with Facility Management.

C.1.6 PROJECT SAFTEY:

A. Contractor is responsible for safety and shall comply with US Consulate General requirements, US Army Corp of Engineers (USACE) Safety Manual (EM 385-1-1), U.S. OSHA Regulations and all local labor laws, regulations, customs and practices pertaining to labor, safety and similar matters. Contractor shall prepare a Project Safety Plan to cover total project safety to be reviewed and approved by the Contracting Officer Representative (COR), and U.S. Consulate Post Occupational Safety and Health Officer (POSHO).
B. Contractor shall furnish Personal Protective Equipment (PPE) for each employee as required for the specific job type and in accordance with (IAW) relevant OSHA regulations.
C. All external personnel assigned to a project are required to participate in a mandatory online safety briefing conducted by the POSHO Safety Office. This safety training must be completed prior to the project start date and the commencement of any work activities.
    1. Personnel joining the team after the project has commenced must also complete this training before undertaking any tasks.
    2. Work conducted without prior safety training is strictly prohibited and will be immediately suspended upon discovery.
    3. The safety briefing may be found at the following link; https://forms.office.com/g/shZ4sLh5Kn
D. Electrical Safety: All electrical work must always be conducted in a "de-energized" state whenever possible and secured using the Lockout/Tagout (LOTO) system/procedure. Energized work must be handled with special precautions as outlined below.
    1. Locks and tags must be applied to the equipment's energy isolation points or control panels. The tags must prominently display a warning message, along with the company name and the technician’s name. LOTO devices may only be removed by the individual who applied them.

2. Energized Work can only be performed if the supervisor requests an Energized Work Permit (EWP) at the Post Occupational Safety and Health Officer (POSHO) at least 24 hours prior to the scheduled start of work. The COR must assist the contractor in obtaining the necessary documents.

E. Hot Work: A hot work permit must be requested from the contractor at least 24 hours prior to the start of the work. The COR must assist the contractor in obtaining the necessary documents.

F. Fall Prevention: For fall heights, suitable protective measures must be taken to minimize the risk of accidents.
1. Elimination (Physically remove the hazard)
2. Substitution (Replace the hazard)
3. Engineering Controls (Isolate people from Hazard)
4. Administrative Controls (Change the way people work)
5. PPE (Protect the worker with Personal Protective Equipment)

G. Temporary Ladders, Chutes, Scaffolds, Hoists and Cranes:
1. Furnish and maintain temporary ramps, scaffolds, hoists, or chutes as required for proper execution of Work.
2. Restrict debris removal to Consulate -approved area of building site.
3. Restrict location of equipment to areas as approved by the COR.
4. Such apparatus, equipment, and construction shall meet requirements of applicable federal, state, and local safety and labor laws.
5. Ladders are required to be non-conductive fiberglass construction with a load capacity (duty rating) of no less than 250 pounds (113kg).
6. Scaffolding:
   a. Initial Inspection: After the scaffolding is completed, it must be inspected by a qualified person to verify proper assembly and safe functionality. This inspection ensures compliance with all safety requirements and standards.
   b. Marking and Documentation: After the final inspection, the scaffolding must be clearly marked in a visible location (preferably at the access point). The label must include at least the following information:
      i. Whether the scaffolding is authorized for use or not
      ii. The name and signature of the authorized person who performed the inspection
      iii. The address and phone number of the scaffolding contractor
      iv. The type of scaffolding, load class, and width class
      v. Any usage restrictions
      vi. Warning notices
      vii. The date of inspection
   c. Scaffold users are required to conduct a daily visual inspection and, if necessary, a functional check by a qualified person before use. This inspection is to identify any obvious defects and ensure safe functionality based on the specific intended use. The inspection must be documented.

C.1.10 PROJECT SECURITY:

A. Personnel Clearances:

1. A Visit Authorization Request (VAR) will be required for all contractor personnel prior to entry. Contractors shall forward the following information to the COR: full name, date and place of birth, Government Identification Card, name of employer, position/discipline.

B. Vehicle Clearances: Submit authorization requests, to include dates, vehicle type, license number, and driver name, for each motorized vehicular implement used on-site.

C. Access to Site: Contractor shall have limited access to or be admitted into the compound outside the areas designated for the project except with permission by the Consulate.

D. Procurement/Storage: Materials shall be procured by NON-SECURE or local means and stored NON-SECURE. All materials may be inspected prior to use on the project.

PART TWO - PRODUCTS

C.2.1 GENERAL

A. The Contractor shall provide all necessary labor, material, equipment, and components necessary to ensure the installation of complete and operable systems. No materials or labor will be supplied or furnished by the Consulate.

B. All materials and equipment incorporated into the project shall be new unless noted otherwise. The Contractor shall transport and safeguard all materials and equipment required for construction.

C.2.2 PRODUCTS

A. The proposed model should be comparable to the Vacumobil JX 350 and/or meet the following specifications:

1. Main System
   a. 1× Dust Extractor Device
   b. 1× IE5 Powerpack (7.5 kW motor + frequency inverter)
   c. 1× Split version (for installation/transport)
   d. 1× Control unit Z8 (for up to 8 machines + damper control)
   e. 1× Operator-side control unit (additional option)
2. Ducting System & Fittings Pipes
   a. 8× Longitudinally seamed pipe Ø 300 mm (L=990 mm)
   b. 2× Longitudinally seamed pipe Ø 250 mm (L=990 mm)
   c. 1× Longitudinally seamed pipe Ø 160 mm (L=990 mm)
   d. 1× Longitudinally seamed pipe Ø 100 mm (L=990 mm)
3. Bends
   a. 3× 90° duct bend Ø 300 mm
4. Branch pieces
   a. 1× Branch 300–300–160
   b. 1× Branch 300–300–250
   c. 1× Branch 300–250–140

d. 1× Branch 250–160–160
e. 1× Branch 160–120–120
f. 1× Branch 160–100–100

5. Branch pieces
    a. 1× Branch 300–300–160
    b. 1× Branch 300–300–250
    c. 1× Branch 300–250–140
    d. 1× Branch 250–160–160
    e. 1× Branch 160–120–120
    f. 1× Branch 160–100–100
6. Hose Material
    a. 4 m Extraction hose Ø 100 mm (TIMBERDUC PUR 532 SE)
    b. 2× Hose sleeves / connectors Ø 100 mm
7. Mounting & Fixing Components
    a. Pipe clamps / tension rings
    b. 17× Ø 300 mm
    c. 4× Ø 250 mm
    d. 10× Ø 160 mm
    e. 3× Ø 140 mm
    f. 2× Ø 120 mm
    g. 2× Ø 100 mm
8. Pipe supports
    a. 4× Pipe support Ø 300 mm
    b. 1× Pipe support Ø 160 mm
9. Electrical Components
    a. Distribution unit (complete)
    b. 1× Hensel enclosure (2-row)
    c. 1× RCD Type A (4-pole, 63A / 30mA)
    d. 1× RCD Type B (4-pole, 40A / 30mA)
    e. 1× Circuit breaker 3-pole C16A
    f. 1× Circuit breaker 3-pole D32A
    g. 1× Circuit breaker 1-pole C16A
    h. 3× Circuit breakers 1-pole B16A
    i. Wiring material
    j. Circuit diagram
10. Cables
    a. 25 m control cable 12×1.5 mm²
    b. 50 m control cable 4×1.5 mm²

11. Cable routing
    a. 4 m cable duct 60×110 mm
    b. 4 m cable duct 60×60 mm
    c. 2× Flat angle for 60×110 mm duct
12. Integrated System Components

a. 4× Collection bins (approx. 495 L total volume)
b. Filter bags (28 m² filter area)
c. Jet pulse cleaning system (compressed air)
d. Automatic fire extinguishing system
e. Backdraft damper
f. High-performance fan

PART THREE – EXECUTION

C.3.1 CONSTRUCTION REQUIREMENTS

A. No construction shall begin until approvals of the Pre-Construction Submittals are accepted by the COR.

B. The Contractor will be provided with a storage and staging area as determined by the COR. The Contractor shall be responsible for restoring the area to its original condition at the completion of the work. The Contractor shall be responsible for repair of any damage incurred to buildings or pavement as a result of storage activities. The Contractor is responsible for obtaining any additional off compound storage areas as required.

C. The Contractor shall always keep the work area free from accumulation of waste materials. Upon completion, the Contractor shall remove any temporary facilities and leave the project site in a clean and orderly condition acceptable to the COR.

D. The Contractor shall perform the work at the site during the U. S. Consulate's normal workday hours, (0800-16:30 Monday – Friday excluding holidays) unless alternate work hours are agreed upon with the COR.

E. Protections and Damage Plan: The Contractor shall be responsible to protect all U.S. Government property to include: all furniture, furnishings, and interior and exterior architectural finishes from damage. Any damage caused by the Contractor to architectural interior and exterior finishes will be returned to original condition by the Contractor at Contractor expense. In addition to the architectural finishes, the Contractor shall protect all non-included mechanical and electrical equipment and controls from damage throughout the duration of work. Prior to commencing the work, the Contractor along with Consulate representatives shall survey the site that will be impacted by the project work and document existing conditions. It shall be the Contractor's responsibility to document in writing all pre-existing damaged surfaces prior to the start of the project work and to provide a copy of the documentation to the COR prior to project start.

C.3.2 INSTALLATION

A. General

1. Installation of unit in accordance with the applicable regulations and manufacturer's instructions

2. Dismantling Existing System
   a. Completely remove existing Nestro extraction system
   b. Dismantle old ducting (if required)

c. Dispose of / remove old components

3. Delivery & Positioning
    a. Deliver DUST EXTRACTOR DEVICE
    b. Bring in unit in split components (if required)
    c. Position at designated installation location
    d. Perform initial mechanical pre-assembly
4. Main System Assembly
    a. Assemble split unit
    b. Install:
    c. Collection bins
    d. Filter bags
    e. Fan / motor (including IE5 powerpack)
    f. Connect integrated components:
    g. Backdraft damper
    h. Fire suppression system
    i. Jet pulse cleaning system
5. Ducting Installation
    a. Install main ducts (Ø 300 mm)
    b. Install 90° duct bends
    c. Integrate branch connections as per layout
    d. Reduce to smaller diameters (250 / 160 / 100 mm)
6. Installation of Control Components
    a. Install electric blast gates:
    b. Ø 160 mm
    c. Ø 140 mm
    d. Install pressure regulating valve in compressed air line
7. Hose Connections
    a. Install extraction hoses Ø 100 mm
    b. Mount hose sleeves / connectors
8. Fixing & Support
    a. Install all pipe clamps and tension rings
    b. Mount pipe supports on wall/ceiling
    c. Align and secure entire ducting system
9. Electrical Installation
    a. Install distribution unit (Hensel enclosure)
    b. Install all protective devices (RCDs, circuit breakers)
    c. Lay control cables:
    d. 12×1.5 mm²
    e. 4×1.5 mm²
    f. Install cable ducts and accessories
    g. Connect control system (Z8 + operator panel)
    h. Connect frequency inverter (IE5 powerpack)
10. Compressed Air Connection
    a. Connect to on-site compressed air supply
    b. Install pressure regulating valve
    c. Ensure:
    d. Operating pressure approx. 4.5 bar
    e. Dry and clean air quality

11. Commissioning & Testing
    a. Perform functional test of the system
    b. Check all blast gates
    c. Test control system and automatic operation
    d. Verify airflow performance and system tightness
    e. Test fire suppression and safety systems
12. Handover & Instruction
    a. Instruct operator/user
    b. Provide documentation and wiring diagrams
    c. Give maintenance and operation guidelines

PART FOUR - SCHEDULE

C.4.1 PERIOD OF PERFORMANCE: Calendar days

A. The work shall be executed in a diligent manner in accordance with a negotiated firm fixed price and performance period as outlined below.

1. Solicitation & Award of Contract:
    a. Award — Zero Day
2. Pre-Construction Submittals:
    a. Insurance, Schedule, & Product Data: — 20 days after Award
    b. Government Review: — 10 days
3. Material Procurement:
    a. Material Order — 15 days
    b. Material Shipping — 8 days
4. Mobilization & Construction:
    a. Crew Information — 5 days in advance
    b. Scope of Work — 15 days on-site

TOTAL PERIOD of PERFORMACE: 73 days

PART FIVE - ATTACHMENTS

C.5.1

END OF SOW