COVER PURCHASE DESCRIPTION

FOR A

BAGGAGE CONVEYOR SYSTEM

AT

RAMSTEIN AIR BASE, GERMANY

BUILDING 3333

CSN: BRM1B5

DATE: 13 FEBRUARY 2026
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1. SCOPE

1.1. GENERAL SCOPE

This purchase description (PD) establishes the minimum performance, design, fabrication, installation, orientation, and test requirements for a baggage conveyor system for the 721st Aerial Port Squadron (APS) in the Air Passenger Terminal, Building 3333 at Ramstein Air Base (AB), Germany. The work shall be completed in accordance with this Cover PD, the associated appendices, and Air Force (AF) Drawing BRM1B5-01. This PD covers all equipment, materials, and labor necessary to complete installation of the system. It also includes performing tests and making adjustments to the system as well as providing classroom and on-the-job instructions to government personnel.

1.2. ACRONYMS

COTR - Contracting Officer's Technical Representative
MTBF - Mean Time Between Failure
MTTR - Mean Time To Repair
ODS - Ozone Depleting Substances
PD - Purchase Description

2. APPLICABLE DOCUMENTS

The following documents form a part of this PD to the extent specified herein. The issue in effect on the date the solicitation is issued shall apply.

2.1. GOVERNMENT DOCUMENTS

AIR FORCE MANUAL	
DAFMAN 91-203	Air Force Occupational Safety, Fire, and Health Standards
AIR FORCE DRAWINGS	
BRM1B5-01	Outbound Baggage Conveyor System Passenger Terminal Building 3333 Ramstein Air Base, Germany 20 November 2025

APPENDICES	
Appendix A	Outbound Baggage Conveyor
Appendix	Existing Equipment Removal
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS	
29 CFR 1910	Occupational Safety and Health Standards
29 CFR 1926	Safety and Health Regulations for Construction
UNIFIED FACILITIES CRITERIA (UFC)	
UFC 3-301-01	Structural Engineering
UFC 3-520-01	Interior Electrical Systems
UFC 3-600-01	Fire Protection Engineering for Facilities
GERMAN STANDARDS	
DIN EN 1090	Execution of Steel Structures and Aluminum Structures
DGUV 108-007	Accurate Dimensions of Steel Construction for Personnel Safety
DIN-VDE Regulations	Electrical Installation Standards

2.2. NON-GOVERNMENT DOCUMENTS

AMERICAN BEARING MANUFACTURER'S ASSOCIATION (ABMA)	
ABMA 9	Load Ratings and Fatigue Life for Ball Bearings
ABMA 11	Load Ratings and Fatigue Life for Roller Bearings
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)	

AISC 325	Manual of Steel Construction - Allowable Stress Design
AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)	
ANSI B11.19	Performance Requirements for Risk Reduction Measures: Safeguarding and other Means of Reducing Risk
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)	
ASME B20.1	Safety Standard for Conveyors and Related Equipment
AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)	
ASTM A123	Standard Specification for Zinc (Hot Dip Galvanized) Coatings on Iron and Steel Products
ASTM A153	Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM A307	Standard Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength
ASTM F3125	Standard Specification for High Strength Structural Bolts and Assemblies, Steel and Alloy Steel, Heat Treated
ASTM B633	Standard Specification for Electrodeposited Coatings of Zinc on Iron and Steel
AMERICAN WELDING SOCIETY (AWS)	
AWS B2.1	Specification for Welding Procedure and Performance Qualification
AWS D1.1	Structural Welding Code – Steel
AWS D14.0	Machinery and Equipment Welding Specification

AWS Z49.1	Safety in Welding, Cutting, and Allied Processes
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)	
NFPA 13	Standard for the Installation of Sprinkler Systems
NFPA 51B	Standard for Fire Prevention During Welding, Cutting, and Other Hot Work
NFPA 70	National Electrical Code
SOCIETY OF AUTOMOTIVE ENGINEERS, INC (SAE)	
SAE J429	Mechanical and Material Requirements for Externally Threaded Fasteners

3. REQUIREMENTS

3.1. SYSTEM DESCRIPTION

The existing outbound baggage conveyor system shall be removed, and a new outbound baggage conveyor system shall be provided and installed. The baggage conveyor system shall be capable of handling suitcases, duffel bags, footlockers, wooden boxes, and other miscellaneous pieces of checked baggage. The new baggage conveyor system shall be configured and installed as shown on AF Drawing BRM1B5-01.

3.1.1. OUTBOUND BAGGAGE CONVEYOR

The outbound baggage conveyor shall be as specified in Appendix A and this Cover PD.

3.1.2. REMOVAL AND DISPOSAL OF EXISTING EQUIPMENT

The removal and disposal of existing equipment shall be completed as specified in Appendix B and this Cover PD.

3.2. CHARACTERISTICS

3.2.1. NOISE LEVELS

The Contractor shall consider noise levels in the design of the equipment. Hazardous noise shall not exceed 85 decibels A-weighted sound pressure level (dB(A)) for 8 hours in any 24-hour

period or equivalent in accordance with DAFMAN 91-203. Noise level measurements will be taken at a distance of 3 feet or 1 meter from the equipment producing the noise and at a level of 5 feet or 1.5 meters above the ground/floor in all locations in which personnel may be present during normal operations. If noise levels of installed equipment exceed this requirement, then noise shall be reduced through engineering controls; i.e., insulation, dampening, and isolation.

3.2.2. ELECTRICAL CHARACTERISTICS

3.2.2.1. POWER SOURCE

The Contractor shall run electrical power from the existing electrical supplies. The Contractor shall furnish and install all necessary wiring and equipment for power distribution to the system and for control of the system.

3.2.2.1.1. POWER DISTRIBUTION PANELS

Power distribution panels (panel boards) with circuit breakers shall be furnished and installed by the Contractor. Panels shall not exceed 78 inches or 2 meters in height. The height of the top operating handle shall not exceed 60 inches or 1.5 meters from the floor. Each panelboard door shall be provided with a lock and keyed alike. The Contractor shall supply two keys per lockset. Directories shall be typed to indicate load served by each circuit and shall be mounted in a holder behind a translucent protective covering on the inside of the panel door. The function of the panel shall be clearly labeled on the outside of the panel. All panel boards comply with UFC 3-520-01 and Article 408 of NFPA 70.

3.2.2.1.2. CONTROL PANELS

The Contractor shall install a lockable control cabinet(s) which houses motor controllers, communications, and control wiring, LAN and programmable logic controller (PLC) processor interfaces. The panels shall be installed near the equipment such that it shall not interfere with equipment operation, operator workstation and warehouse activities, and shall not block aisles when closed. Panels shall not exceed 78 inches or 2 meters in height. The height of the top operating handle shall not exceed 60 inches or 1.5 meters from the floor. The locks of all the panels shall be keyed alike and the contractor shall provide two keys per lockset. Control wiring diagrams shall be provided as part of all drawing submittals, with the as-built copy mounted in a plastic case inside the panel door.

The control panel shall have a key activated system start/stop button. The function of the control panel shall be clearly labeled on the outside of the panel. All control panels shall comply with Article 384 of NFPA 70.

3.2.2.2. PROGRAMMABLE LOGIC CONTROLLERS

All programmable logic controllers (PLCs) shall be protected from damaging electrical power fluctuations including sags, spikes, transients, frequency variations, surges and noise.

3.2.2.3. INSTALLATION CODE

The installation shall, at a minimum, conform to applicable rules of UFC 3-520-01 and DIN-VDE regulations.

3.2.2.4. CONDUIT

All wiring shall be encased in rigid metal conduit conforming to Article 346 of NFPA 70; electrical metallic tubing conforming to Article 348 of NFPA 70; or flexible metallic tubing conforming to Article 349 of NFPA 70. If conduit/cables are dropped from overhead, they shall be enclosed in a power pole. No conduit/cable shall run on top of the floor/ground. Exposed conduit shall be installed parallel or perpendicular to walls, structural members, or intersections of vertical planes and ceilings. Exposed conduit and fasteners shall match the color of the walls and/or existing conduit color. Changes in direction of conduit shall be made with symmetrical bends or cast metal fittings. Field made bends shall be made with the proper hickey or conduit-bending machine. Crushed or deformed conduit shall not be accepted. Conduit shall be rigidly fastened in place at intervals of not more than 10 feet or 3 meters.

3.2.2.5. GROUNDING

Each component of the system shall be properly grounded to ensure safe working conditions. This shall include adequate ground against static charges that may be generated. Grounding shall conform to UFC 3-520-01.

3.2.2.6. WIRING

Conductors shall be copper or aluminum. Copper conductors shall be used for all wiring that is AWG #6 and smaller. Aluminum conductors may only be used for wiring that is AWG #4 and larger and shall use connectors, terminations, and other devices

designed for aluminum conductors. Wire connectors of insulating material or solderless pressure connectors properly taped shall be utilized for all splices where possible. Soldered mechanical joints shall not be accepted. All wiring shall be color coded, uniquely tagged, or uniquely numbered for identification. Marking shall be applied in such a manner to facilitate tracing of wires (circuits) during repairs and maintenance. Wiring and wiring installation shall conform to UFC 3-520-01. All circuits shall be checked for grounds or poor connections prior to being energized.

3.2.2.7. OVERCURRENT PROTECTION

The power distribution panel shall be equipped with circuit breakers and fuses in compliance with UFC 3-520-01. Motors shall be equipped with disconnect switches and thermal overload devices.

3.2.2.8. ENVIRONMENTAL PROTECTION

All indoor enclosures and controls shall be in accordance with NEMA ICS 6, Type 12. All outdoor enclosures and controls shall be in accordance with NEMA ICS 6, Type 3S. All enclosures shall be in compliance with UFC 3-520-01.

3.2.2.9. PROTECTION FROM MECHANICAL DAMAGE

No pushbuttons, control panel, conduit, shielded cable, wire, or electrical device shall be installed so as to expose it to mechanical damage during normal use. If an electrical device, which includes photoeyes, is exposed to damage by material or personnel, then it shall be guarded.

3.3. DESIGN AND FABRICATION

3.3.1. DESIGN CRITERIA

3.3.1.1. RELIABILITY AND AVAILABILITY

Each component of the system shall demonstrate a mean time between failure (MTBF) and availability greater than or equal to that listed in Table 1. A failure is defined as any condition that does not conform to the specification or any interruption that causes corrective maintenance to be made to the system. Failures also include situations requiring the use of maintenance personnel and situations requiring the resetting or restarting of any component. The operating time shall be based on the hours listed in Table 1 or the actual hours read from the

hour meter. The following formulas will be used to calculate MTBF and availability.

$$\text{MTBF} = \frac{\text{Operating Time}}{\text{Total Failures}}$$

$$\text{Mean Time to Repair (MTTR)} = \frac{\text{Total Repair Time}}{\text{Total Failures}}$$

$$\text{Availability} = \frac{\text{MTBF}}{(\text{MTBF} + \text{MTTR})}$$

Equipment	Operating Time (Hours)	MTBF (Hours)	Availability (%)
Outbound Conveyor	Hour Meter	22	95

Table 1. Reliability/Availability Requirements

3.3.1.2. MAINTAINABILITY

The system shall be designed, fabricated, and installed to facilitate maintainability and ensure a minimum service life of 15 years. The design shall provide for modular assembly of components and subassemblies where feasible to permit repair or replacement of parts in a minimum of time.

3.3.1.3. ENVIRONMENTAL CONDITIONS

All system components shall operate in a temperature range of 0 to 120 degrees Fahrenheit with up to 99 percent relative humidity. All system components located indoors shall be constructed to operate in an open warehouse environment. All system components located outdoors shall be constructed for year-round outdoor use, operating in an environment consisting of sun, rain, fog, high humidity, salt air, snow, sleet, ice, and wind. All system components located outdoors, near exterior doors, or under canopies shall be designed to not trap precipitation. Drain holes, cutouts, sloped surfaces, and drain passages shall be provided to eliminate water accumulation, standing water, and ponding.

3.3.1.4. STANDARD, COMMERCIAL COMPONENTS

Standard, commercial components which have been for sale and available for purchase to the general public or government agencies for at least one year shall be used to the maximum extent possible. If requested by the Contracting Officer’s Technical Representative (COTR), the Contractor shall furnish

evidence that equipment of approximately the same design as that proposed to be installed has been tested and successfully operated. Where two or more units of the same type of equipment are required, these units shall be products of the same manufacturer. All equipment and materials shall be new.

3.3.1.5. STANDARDIZATION

Mechanical and electrical interchangeability shall exist between like assemblies, subassemblies, and replaceable parts regardless of the manufacturer's supplier. Interchangeability does not necessarily mean complete identity, but requires that a substitution of such like-assemblies and replacement parts be easily effected without physical or electrical modifications, including cabling, wiring, and mounting.

3.3.1.6. SPECIAL TOOLS

Use of special tools shall be minimized and, where required for operational adjustments, shall be provided and securely mounted within the equipment in a readily accessible location. Standard tools, fittings, lubricants, and fluids shall be used to the maximum practicable extent.

3.3.1.7. ACCESSIBILITY

Structural members shall not prevent access to or removal of components for repair or replacement. Equipment shall be designed for rapid and easy removal as well as replacement or repair of malfunctioning units, by one individual where feasible.

3.3.1.8. LUBRICATION REQUIREMENTS

Mechanical components shall be designed to permit lubrication of components without disassembly. The type and frequency of lubrication shall be specified on an instruction plate mounted near the lubrication point.

3.3.1.9. STRUCTURAL AND SEISMIC REQUIREMENTS

The system shall be designed and constructed in accordance with applicable seismic design codes, including but not limited to the International Building Code (IBC) and UFC 3-301-01. All mechanical and electrical components shall be designed and installed to withstand seismic activity. Vibration isolation devices and bracing shall be used as necessary to meet this requirement.

3.3.1.10. VERIFICATION OF DIMENSIONS

The contractor shall become familiar with all details of the work, verify all dimensions in the field, and shall advise the Contracting Officer (CO) of any discrepancy before performing the work.

3.3.1.11. OZONE DEPLETING SUBSTANCES (ODS)

The Contractor shall not use or prescribe to the greatest extent possible any ODS in the installation and maintenance of the system. ODS includes, but is not limited to aerosol cans, certain cleaning solvents, refrigerants, and certain lubricants. If there is a question pertaining to the applicability of a substance, submit the name of the substance to the Contracting Officer for verification.

3.3.1.12. SAFETY

The Contractor shall consider the safety of personnel and equipment when designing and installing the system. Safety provisions shall be incorporated to the maximum extent possible. When possible, hazards shall be eliminated through design. When this is not possible, safety devices such as guards, interlocks, and barriers shall be installed. If this does not eliminate the hazard, warning devices such as warning signs, indicator lights, and audio devices shall be installed. Safety requirements shall include, but are not limited to, the following.

3.3.1.12.1. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

The system installation practices and completed system shall meet all applicable requirements of OSHA 29 CFR 1910 and OSHA 29 CFR 1926, and DAFMAN 91-203.

3.3.1.12.2. PROTECTION AGAINST MOVING PARTS

Moving parts shall be provided with guards to protect personnel from possible injury. Guards shall be in accordance with ANSI B11.19 and OSHA 29 CFR 1910.

3.3.1.12.3. PLACARDS

Conspicuous placards shall be mounted adjacent to areas where hazards may exist (i.e., capacities, pinch points, and tripping hazards). Placards shall also be used to identify operating limits (i.e., capacity, speed, and incline) in a conspicuous location for operators' use.

3.3.1.12.4. FAIL-SAFE CONTROLS

No controls shall cause false operation or endanger personnel if a part should fail. No damage or destruction of any component shall result from reduced voltage or complete loss of power. All control systems shall fail-safe to a fully stopped position with all components maintained in position. All components shall remain in position when power is returned to ensure no unexpected movement occurs. Movement of components shall only occur upon operator input.

3.3.1.12.5. CONVEYOR SAFETY STANDARD

Conveyor design, components, and controls shall conform to ASME B20.1.

3.3.1.12.6. SAFETY STANDARD

The system shall comply with the material handling safety standards in DAFMAN 91-203.

3.3.1.12.7. PERSONNEL PATHWAYS

The Contractor shall be cognizant of personnel pathways throughout the system and shall provide safe pathways for personnel. Pathways include components that may be stepped on to make an elevation change of less than 20 inches or 0.5 meters or areas that are likely to be used by maintenance personnel to access system components. The COTR shall determine required personnel pathways throughout the system. All areas not meant for personnel traffic shall have signs, barriers, or other means to prevent access. The top of all structural members and other horizontal surfaces likely to be used as a pathway by personnel shall have a non-slip surface for safety. The maximum elastic deflection of any pathway component shall not exceed 1/8 inch or 3 millimeters under a 250-pound or 110 kilogram load. Tripping hazards shall not be placed across personnel pathways.

3.3.1.12.8. PERSONNEL HAZARDS

Sharp objects or edges shall not be exposed in areas accessible to personnel.

3.3.1.13. HUMAN ENGINEERING

The system design and layout shall incorporate ergonomic design criteria so the optimal interface between operator and equipment is attained.

3.3.2. MATERIALS

3.3.2.1. STEEL

The structural steel components shall meet all design property requirements of AISC 325.

3.3.2.2. MECHANICAL FASTENING DEVICES

Unless otherwise specified, all threaded connectors of diameter greater than 7/16 inch or 11 millimeters shall be either A325 bolts conforming to ASTM F3125 or SAE Grade 5 bolts conforming to SAE J429. All structural joints shall be in accordance with AISC 325. Bolt hole diameters shall not exceed nominal bolt diameters by more than 1/16 inch or 1.5 millimeters. All bolt holes shall be free of burrs, pins, or slivers. Bolts shall extend a minimum of two threads beyond the nuts. All nuts, bolts, and other threaded fasteners shall be plated or galvanized to prevent corrosion. All threaded fasteners shall utilize plated flat and lock washers as required.

3.3.2.3. ANCHORS

Anchors shall, at a minimum, meet the requirements of ASTM A307. Anchors shall be either the drop-in expansion type or wedge type. All anchors shall be sufficient in size to withstand the calculated pullout and shear forces experienced by the equipment. Minimum anchor sizes shall be 3/8 inch or 9.5 millimeters in diameter. Anchor lengths shall be long enough to assure that the manufacturer's minimum embedment in concrete is maintained and shall be installed properly to maintain the required minimum concrete embedment. Anchors shall be spaced so the manufacturer's recommended minimum allowable spacing between anchors is maintained and the recommended minimum allowable edge distance is maintained. All anchors shall be torqued to the manufacturer's recommended installation torque. Chemically bonded anchors may be used if approved by the COTR.

3.3.3. PROTECTIVE COATINGS

All metal system component surfaces shall be protected from corrosion by painting, plating, or galvanizing.

3.3.3.1. PAINTING

Metal surfaces which are not stainless steel, galvanized, or plated shall be cleaned, treated, and painted to protect against rust, corrosion, and deterioration. Surfaces that contain loose

rust, loose mill scale, and other foreign substances shall be cleaned mechanically with hand tools, power tools, or by sandblasting. The first coat of paint or primer shall be applied to a dry clean surface as soon as practicable after cleaning and treating the metal. The primer shall not interfere with the application and adhesion of subsequent coats. Paint shall last the service life of the equipment. Paint shall be lead and chromate free and meet air pollution requirements for solvent emissions. When several standard colors are available, a color selection chart shall be submitted to the COTR with the shop drawings for selection. The finish coat shall be a smooth, even surface, free from runs, sags, and defects when dry. Welded surfaces shall be cleaned and painted after the welding process is complete. Prepainted accessories, as well as surfaces not requiring paint, shall be protected from overspray. Paint shall contain a mildewcide that will not adversely affect the color, texture, or durability of the coating.

3.3.3.2. PLATING

All surfaces to be plated shall be thoroughly cleaned to provide a surface free of mill scale, oil, grease, dirt, rust, and any other foreign material prior to being plated. Plating at a minimum shall comply with ASTM B633, Service Condition 1, Type I unless otherwise specified.

3.3.3.3. GALVANIZING

All metal surfaces to be galvanized shall be thoroughly cleaned to provide smooth surfaces and shall comply with ASTM A153 and ASTM A123.

3.3.3.4. DISSIMILAR METALS

Materials used and their locations shall not promote galvanic corrosion. No combination of materials shall be used that form an electrolytic couple of such nature that corrosion is accelerated.

3.3.4. WELDING

Dimensional tolerances for welded construction, details of welds, and quality of welds shall be in accordance with the applicable requirements of AWS B2.1, AWS D1.1, and AWS D14.0. The Government reserves the right to perform supplemental nondestructive and destructive tests to determine compliance. Safety precautions during welding shall conform to AWS Z49.1.

3.3.4.1. WELDING PROCEDURE QUALIFICATION

Qualification of welding procedures shall conform to the applicable requirements of AWS B2.1, AWS D1.1, and AWS D14.0. The Government reserves the right to request copies of Welding Procedure Specifications for any welding procedure followed in the fabrication of this system.

3.3.4.2. WELDER PERFORMANCE QUALIFICATION

Each welder, welding operator, and tack welder assigned to work on this system shall be qualified in accordance with the applicable requirements of AWS B2.1, AWS D1.1, and AWS D14.0. The Government reserves the right to request certification (Performance Qualification Test Record) that each welder, welding operator, or tack welder is qualified as specified.

3.3.5. FIRE PROTECTION

Fire protection requirements shall conform to UFC 3-600-01, NFPA 13, and DAFMAN 91-203. All welding, cutting, brazing, and burning operations shall be accomplished in strict compliance with the requirements outlined in DAFMAN 91-203 and NFPA 51B. Prior to starting any welding, cutting, brazing, or burning operations, the Contractor shall obtain a permit (USAF Welding, Cutting, and Brazing, AF Form 592). This permit can be obtained by contacting the Ramstein AB Fire Department at least 48 hours in advance. A copy of each permit shall be retained at the work site until the work has been completed. Operations that produce flying, dropping slag, metal or embers shall have sufficient non-combustible materials and fire blankets on site to protect against fire damage or personal injury. In addition, the Contractor shall provide a minimum of 2 portable fire extinguishers at the work site until the work has been completed. Extinguishers shall meet a rating of 4A-40BC and the requirements outlined in Chapter 6 of DAFMAN 91-203. At the close of the operation, the Contractor shall make a thorough inspection of each building in which work was performed. These inspections shall ensure that all necessary safeguards relative to potential fire hazards are in effect and operational. Contractor personnel shall be familiar with the location of all telephones needed for fire reporting. The Contractor shall maintain good housekeeping practices to reduce the risk of fire, damage, or personal injury. All scrap materials, rubbish, and refuse shall be removed daily from in and around the building and shall not be permitted to be strewn on adjacent property. Flammable and combustible materials used inside the building shall be kept to a minimum and removed from the building during

unused periods. Storage of flammable and combustible materials shall not be permitted inside the building.

3.3.6. CUTTING

All edges produced by oxygen-flame cutting or any cutting operation shall be finished by grinding (or other method approved by the COTR) to a surface finish equivalent to that of adjacent surfaces. Sharp edges shall not be acceptable.

3.3.7. CLEAN-UP

The Contractor shall, at all times, keep the work area, including storage areas, free from the accumulation of waste materials and dust which would cause a hazard or nuisance to others. The approved methods of stabilization for dust control are sprinkling, chemical treatment (non-ODS) or a similar method approved by the COTR. If there is a cutting process, the solution shall be vacuumed up during the process to prevent dust pollution and water damage. Fluid residue shall be wiped from all gearboxes, hydraulic components, and similar items before testing begins so leaks will be readily apparent. Before leaving the site, the Contractor shall remove all rubbish, tools, equipment, and materials that are not the property of the Government. At the completion of the installation and all testing, the Contractor shall leave the site in a clean, neat and orderly condition satisfactory to the COTR. Waste will be removed daily from the site and shall not be allowed to accumulate to the extent that it becomes a safety or fire hazard. It shall be the Contractor's responsibility to dispose of waste in accordance with all applicable Federal, State, Air Force, local, and municipal codes.

3.3.8. COORDINATION

The Contractor shall obtain approval from the local base civil engineering, fire, safety, and bioenvironmental offices before making any modifications to the existing structure or adjacent grounds to accommodate the new system. The modifications shall match existing work and shall be of comparable quality. The COTR shall approve all modifications before they are made. The Contractor shall request all power outages required for installation of the system to the base’s civil engineering office a minimum of 15 days prior to the requested outage. Power shall not be shut off until approval has been obtained from the base civil engineering office, and the actual outage date and time shall match the approved period.

3.3.9. NAMEPLATES

The Contractor shall provide and install corrosion resistant metal nameplate for the inbound and outbound conveyors. The nameplates shall be located on the front of the motor control centers of each conveyor. Nameplates shall last the life of the equipment and shall be capable of withstanding local environmental conditions. Nameplates shall be stamped, engraved, or etched in a print type not less than 1/8 inch or 3 millimeters tall. No nameplate or product marking shall be installed until all touch-up painting has been completed. The nameplate or product marking shall clearly display the following headings and corresponding information:

Type of Equipment:
Name of Manufacturer:
Manufacturer Telephone Number:
Manufacturer Web Address:
Contract Number:
Capacity:
Manufacture Date, Month/Year:
Provided by AFLCMC/EZPAE, 937-257-3078
Property of U.S. Government

3.3.10. PRECEDENCE

Where local codes and standards conflict with the contents of this PD, the more stringent requirement as determined by the COTR shall prevail.

3.3.11. INSTALLATION BARRIER |R1

The contractor shall erect a full-height temporary barrier constructed of 6 mil fire retardant polyethylene sheeting prior to the demolition and installation of the system. The barrier shall run the full length of the check-in area and be sealed to prevent debris and dust from migrating into the public area. The contractor shall remove the barrier at the end of the installation. Any building surfaces (floor, ceiling, wall, etc.) and finishes that are damaged from the attachment of the barrier shall be restored to their original condition.

3.4. DOCUMENTATION

The Contractor shall provide documentation (data) as described below and in accordance with Table 2 below. All documentation shall be provided in English or English/German. Where possible, the Contractor shall print on recycled paper. Also, the Contractor shall not require the use of any Class I ozone

depleting substance in any submittal.

3.4.1. MANAGEMENT REPORTS

The Contractor shall provide a monthly status report complete with schedule. The report shall be either Microsoft Word document or a PDF file. The monthly status report shall be submitted in accordance with Table 2. Contractor format is acceptable as long as it provides the following information as a minimum:

A) A front cover sheet which includes the title of report, the contractor's name and address, the base name, the contract number, and the date.
B) A schedule showing progress against schedule to date of report submission and future schedule to contract completion. Schedule as a minimum shall provide the following milestones: submission of data items, if applicable the post award conference, fabrication, shipping, installation, and testing.
C) The body of the report shall provide a summary of the progress to date. It shall identify any problem areas, any changes in schedule or contract equipment, any engineering change proposals, all significant trips, emails, or telephone calls affecting the performance or scope of the contract.

3.4.2. SHOP DRAWINGS

The Contractor shall provide shop drawings, which includes as a minimum; all drawings and instructions required for installation of the system, electrical drawings, mechanical drawings, and if applicable, foundation calculations. The shop drawing package shall be submitted in accordance with Table 2.

3.4.3. EQUIPMENT MANUALS

Operation and maintenance manuals and illustrated parts breakdowns (IPB) shall be required for every system component with moving parts, electrical/electronic parts and especially components requiring maintenance. Warranties shall be included in the manuals or provided as a separate data item. All manuals shall be provided in English or English/German. Manuals shall be submitted in accordance with Table 2.

3.4.3.1. OPERATION MANUALS

Operation manuals shall provide instructions for the safe operations of the equipment. Operation manuals shall provide an

inspection checklist to ensure equipment is safe to operate before use. Operation manuals shall include the minimum operator training requirements for use of the equipment.

3.4.3.2. MAINTENANCE MANUALS

Maintenance manuals shall provide step-by-step instructions for the replacement of all commercial parts, wheel bearings, motors, etc. The maintenance manuals shall provide all operating parameters for the conveyors. The maintenance manuals shall provide instructions for all maintenance tools provided.

3.4.3.3. ILLUSTRATED PARTS BREAKDOWN MANUALS

If not inherent in the maintenance manual, a complete illustrated parts breakdown (IPB) down to the component level shall be provided. The IPB shall provide illustrated breakdown for disassembly of all commercial parts as well as the breakdown of major assemblies. The IPB shall include all commercial part number for commercial items whether or not they have been modified by the Contractor.

3.4.4. EQUIPMENT CERTIFICATIONS

The Contractor shall certify that the system meets or exceeds all certification requirements listed in Section 4 of this Cover Purchase Description and of all appendices. A general statement that the delivered system meets or exceeds all system requirements is not acceptable; the Contractor shall certify each requirement individually.

3.4.5. TESTING CERTIFICATION

The Contractor shall certify that the system checkout test, described in Section 4 of the Cover Purchase Description and all appendices, has been successfully completed.

3.4.6. AS-BUILT DRAWINGS

The Contractor shall provide as-built drawings of all drawing submitted as part of the shop drawing package. The as-built drawing package shall be submitted in both AutoCAD and PDF format and hard copy. Hard copy size of the drawings shall be dependent on clarity of the drawings, but as a minimum shall be B size. As-built drawings shall be submitted in accordance with Table 2.

DATA ITEM	DUE DATE	DISTRIBUTION LIST		
		Engineer AFLCMC/EZPAE	Buyer	Base POC
Management Reports (3.4.1.)	1st business day of each month starting after the month the contract is awarded	Email with attachment of report	Email with attachment of report	Email with attachment of report
Shop Drawings (3.4.2.)	As specified by the Design Completed CLIN of contract	Email with attachment of drawings (AutoCAD and PDF)	Email with attachment of drawings (PDF)	Email with attachment of drawings (AutoCAD and PDF)
Equipment Manuals (3.4.3.)	With delivery of equipment	Email with attachment of manuals (PDF)	Email with attachment of manuals (PDF)	Email with attachment of manuals (PDF) and two printed sets shipped
Equipment Certifications (3.4.4.)	Prior to start of quality conformance test	Email with attachment of certifications (PDF)	Email with attachment of certifications (PDF)	Email with attachment of certifications (PDF)
Testing Certification (3.4.5.)	Upon successful completion of the system checkout test	Email	Email	Email
As-built Drawings (3.4.6.)	30 days after successful completion of quality conformance test	Email with attachment of drawings (AutoCAD and PDF)	Email with attachment of drawings (PDF)	Email with attachment of drawings (AutoCAD and PDF) and one set of hard copies (D size)

Table 2. Distribution of Data Requirements

3.5. ORIENTATION

The Contractor shall provide technical services and materials to orient Government personnel. Fully qualified Contractor personnel who are knowledgeable of the system shall accomplish all orientation. Courses shall be combined in accordance with the Contractor's standard commercial training courses, where applicable, provided all aspects of training are included. Orientation shall be provided at Ramstein AB. The Contractor shall provide each attendee with a certificate indicating successful completion of the orientation. All orientation shall

be completed prior to the start of the quality conformance test.

3.5.1. SYSTEM OPERATOR ORIENTATION

This orientation shall provide instructions in the overall operational functions that are performed by the system operators. Instructions shall include the operation of all the system components. Upon completion of this course, the operators shall be able to operate all components of the system. Operators shall be able to perform these functions using only the reference manuals provided with the system relative to operations. An estimated 10 students with possibly no experience will attend.

3.5.1.1. SYSTEM OPERATOR CLASSROOM INSTRUCTIONS

The classroom phase shall include instructions in the operational requirements of the installed system. Classroom instructions shall include a briefing and orientation on the use of the operation manuals supplied by the Contractor. Classroom instructions shall be developed so that it can be placed on videotape. Classroom instructions shall be a minimum of one hour.

3.5.1.2. SYSTEM OPERATOR HANDS-ON INSTRUCTIONS

The hands-on phase shall include actual operation of the system under the supervision and instruction of the Contractor. Hands-on instruction shall be a minimum of one hour.

3.5.2. MAINTENANCE ORIENTATION

This orientation shall provide instructions on corrective and preventive maintenance of the delivered system. Instruction shall include installation and adjustment of all system components. Upon completion of this orientation, students shall be able to install, adjust, and maintain the equipment using only the maintenance reference manual delivered. An estimated 6 students with possibly no experience will attend.

3.5.2.1. MAINTENANCE CLASSROOM INSTRUCTION

The classroom phase shall include instruction in the maintenance requirements of the installed system. Classroom instruction shall include a briefing and orientation on the use of the maintenance manuals supplied by the Contractor. Classroom instruction shall be developed so that it can be placed on videotape. Classroom instruction shall be a minimum of one

hour.

3.5.2.2. MAINTENANCE HANDS-ON INSTRUCTION

The hands-on phase shall include actual field instruction in the maintenance requirements of the installed system. Hands-on instructions shall be a minimum of one hour.

4. QUALITY ASSURANCE PROVISIONS

4.1. GENERAL

The COTR will monitor the installation of the system. The system delivery dates shall not be extended because of work stoppages caused by unacceptable practices or test failures. For all inspections and tests, the Contractor shall provide all test apparatus (i.e., tape measures, levels, calipers, micrometers, stop watches). All test apparatus will be returned to Contractor upon completion of all tests. The Government will provide all test loads. The Contractor shall be responsible for performing all inspections and tests. The Contractor shall provide a knowledgeable and authoritative representative on site during the entire acceptance tests.

4.2. ACCEPTANCE TESTS

Three tests must be successfully completed prior to the Government accepting the system. These tests are the system checkout test, the quality conformance test, and the reliability demonstration test.

4.2.1. SYSTEM CHECKOUT TEST

Upon completion of installation, the Contractor using loads of the type specified herein and in the appendices shall check out the system. The Contractor shall inspect the system to assure that the system meets all the requirements of 4.3.1. The Contractor shall also test the system in accordance with the test defined in 4.3.2. All inspections and tests shall be repeated until all modifications and/or adjustments are complete and the system passes all inspections and tests. The Contractor shall submit to the Contracting Officer written certification that the system has passed the requirements of this paragraph. The COTR will schedule the quality conformance test to start within 10 days following the receipt of the written certification from the Contractor.

4.2.2. QUALITY CONFORMANCE TEST

All work shall be scheduled so only one quality conformance test is required. The Contractor shall provide the equipment certifications and the testing certification in accordance with 3.4.4. and 3.4.5. These certifications are required prior to the start of the quality conformance test. The Contractor, in the presence of the COTR, shall inspect the system to confirm that the system meets all the requirements of 4.3.1. The Contractor, in the presence of the COTR, shall also test the system in accordance with the tests defined in 4.3.2. Upon successful completion of all tests and inspections and the receipt of all certifications, the reliability demonstration test shall start.

4.2.3. RELIABILITY DEMONSTRATION TEST

After successful completion of the quality conformance test, each component of the system shall demonstrate reliability and availability greater than or equal to that specified in 3.3.1.1. and Table 1. In addition, all static components shall demonstrate compliance with the requirements of the PD. The test period shall be the 30 calendar days immediately following the successful completion of the quality conformance test. If the system does not demonstrate the required reliability and availability or compliance with the PD, the test shall be restarted from the beginning after the Contractor has taken corrective action. The Contractor shall be allowed to restart the reliability demonstration test a maximum of 2 times. If the system fails to pass the reliability demonstration test within 3 attempts, then the system may be rejected.

4.3. INSPECTIONS, TESTS, AND CERTIFICATIONS

This section defines all inspections and tests that must be completed as part of the system checkout test and repeated at the quality conformance test. This section also includes a list of all certifications that must be received from the Contractor on or before the start of the quality conformance test. The Contractor may add to this list, or question any requirement, by sending a letter to the Contracting Officer prior to the acceptance tests. The COTR will classify all deficiencies encountered into one of the defect classifications listed below. Any critical or major defect found shall be cause for rejection of the system. Any minor defect shall leave the rejection of the system at the discretion of the COTR.

Critical Defect - A defect that judgment and experience indicate is likely to result in hazardous or unsafe conditions for individuals using, maintaining, working near, or depending upon the equipment.

Major Defect - A defect other than critical that is likely to result in failure, or reduce materially the system for its intended purpose.

Minor Defect - A defect that is not likely to reduce materially the usability of the system for its intended purpose, or is a departure from established standards having little bearing on the effective use or operation of the system.

4.3.1. INSPECTIONS

The system shall be inspected to verify that it meets all the requirements of sections 1, 2, and 3 of the Cover PD and the associated appendices. These inspections shall be completed as part of the system checkout test and again as a part of the quality conformance test.

4.3.2. TESTS

The following tests along with the test in associated appendices shall be performed on the system as part of the system checkout test and again as a part of the quality conformance test.

No.	Paragraph	Test
1.	3.3.1.12.	Ensure that there are no safety issues with the installation of the system and that hazards have been eliminated through design.
2.	3.3.1.12.3.	Inspect to see that placards are provided where unsafe conditions exist.
3.	3.3.2.3.	Inspect all anchors to see if bolts are embedded to the correct depth, lock washers are provided, and nuts are tightened.
4.	3.3.3.	Inspect the system to ensure all equipment is protected from the environment by either paint, coatings, galvanizing, or the type of material used.

5.	3.3.7.	Ensure the work site around the system is clean.
6.	3.3.9.	Check to see if all required nameplates are provided and securely attached to the equipment.
7.	3.4.3.	Verify that manuals are provided and are acceptable.
8.	3.4.4. 3.4.5.	Ensure the system certifications are provided.
9.	3.5.	Ensure all training or orientations have been provided.

4.3.3. CERTIFICATIONS

The Contractor shall provide certification that the following requirements and the certification requirements of the associated appendices have been met in accordance with the Contract Data Requirements List.

No.	Paragraph	Certifications
1.	3.2.2.3.	The installation conforms to applicable rules of UFC 3-520-01 and DIN-VDE regulations.
2.	3.3.1.2.	The system was designed, fabricated, and installed to facilitate maintainability and provide a minimum service life of 15 years.
3.	3.3.1.3.	The system was designed to operate in environmental conditions found at Ramstein AB.
4.	3.3.1.12.1.	The system installation practices and completed system meet all applicable requirements of OSHA 29 CFR 1910, OSHA 29 CFR 1926, and DAFMAN 91-203.
5.	3.3.1.12.2.	Guards are provided in accordance with ANSI B11.19.
6.	3.3.1.12.5.	All conveyor design, components, and controls conform to ASME B20.1.

7.	3.3.1.12.6.	The system complies with the material handling safety standards in DAFMAN 91-203.
8.	3.3.2.1.	The structural steel components meet all design property requirements of AISC 325.
9.	3.3.2.2.	All threaded connectors of diameter greater than 7/16 inch or 11 millimeters are either A325 bolts conforming to ASTM F3125 or SAE Grade 5 bolts conforming to SAE J429.
10.	3.3.2.2.	All structural joints are in accordance with AISC 325.
11.	3.3.2.3.	Anchors meet the requirements of ASTM A307.
12.	3.3.3.1.	Paint and paint application complies with 3.3.3.1. specifications.
13.	3.3.3.2.	Plating complies with ASTM B633, Service Condition 1, Type I.
14.	3.3.3.3.	All metal surfaces to be galvanized were thoroughly cleaned to provide smooth surfaces and comply with ASTM A153 and ASTM A123.
15.	3.3.4.	Dimensional tolerances for welded construction, details of welds, and quality of welds are in accordance with the applicable requirements of AWS B2.1, AWS D1.1 and AWS D14.0.
16.	3.3.4.2.	Each welder, welding operator, and tack welder assigned to work on this system was qualified in accordance with the applicable requirements of AWS B2.1, AWS D1.1, and AWS D14.0.

4.4. WARRANTY

The contractor shall warrant that all equipment and components furnished under this contract will be free from defects in material or workmanship and will conform with all requirements of this contract. The warranty period shall last one year after final acceptance. When return, correction, or replacement is required, transportation charges and responsibility for the supplies while in transit shall be borne by the contractor. Any equipment or components thereof, corrected or furnished in

replacement under this warranty, shall also be subject to the terms of this warranty to the same extent as supplies initially delivered. The warranty, with respect to the equipment or components thereof, shall be equal in duration to the length of the original warranty and shall run from the date of delivery of the corrected or replaced supplies. The Contracting Officer's Technical Representative (COTR) or Base Project Officer (BPO) shall notify the contractor of failures that require correction under this warranty. The contractor shall provide an email explaining the suspected cause of failure, listing the defective item(s), course of action (i.e. replace or repair), time to complete (i.e. delivery and installation or time to repair), and any other details that may be relevant.

TECHNICAL PROPOSAL QUESTIONNAIRE
FOR
COVER PURCHASE DESCRIPTION

Solicitation Number: _____
Project Title: Baggage Conveyor System
Base: Ramstein AB, Germany CSN: BRM1B5
Cover PD, **REV 1: 18 June 2026**

The Offeror shall complete this questionnaire. All entries to this questionnaire shall be typed. The questionnaire will be used to determine the Offeror's understanding of the requirements and acceptability of the proposed equipment. Please attach any exceptions to the Purchase Description as detailed below.

Paragraph	Characteristics
3.	Will you comply with all requirements as written, with exception taken only to those items indicated on the attached exception sheet? ☐ YES ☐ NO

Solicitation Number: _____

EXCEPTIONS

Attach any exceptions taken to the Purchase Description Appendix. Please outline those concerns in detail. Your exceptions will be reviewed to determine acceptability.

Are exceptions taken? ☐ YES ☐ NO

Number of pages attached: _____