
RESOURCE BREAKDOWN STRUCTURE (RBS)

National Currency Printing and Secure Banknote Production Facility Project
(NCPBF)



PMIC
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Initiated By Lazuli Pamir
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in Afghanistan

Project Title:

National Currency Printing and Secure Banknote Production Facility Project
(NCPBF)

Project Sponsor:

Central Bank

Prepared by: PMIC of Lazuli Pamir Consulting – for learning purpose only

Resource Breakdown Structure (RBS)

Project: National Currency Printing and Secure Banknote Production Facility (NCPBF)

1. Human Resources

1.1 Project Governance and Management

- 1.1.1 Project Sponsor
- 1.1.2 Project Manager
- 1.1.3 PMO Specialists
- 1.1.4 Project Control Analysts
- 1.1.5 Risk Management Specialists
- 1.1.6 Change Control Board Members
- 1.1.7 Document Control Officers

1.2 Engineering and Construction Personnel

- 1.2.1 Civil Engineers
- 1.2.2 Structural Engineers
- 1.2.3 Mechanical Engineers
- 1.2.4 Electrical Engineers
- 1.2.5 Construction Supervisors
- 1.2.6 Site Safety Officers
- 1.2.7 Construction Labor Teams

1.3 Printing Machinery Specialists

- 1.3.1 Printing Equipment Engineers
- 1.3.2 Mechanical Installation Technicians
- 1.3.3 Equipment Calibration Specialists
- 1.3.4 Vendor Technical Experts
- 1.3.5 Machinery Maintenance Engineers

1.4 IT and Cybersecurity Personnel

- 1.4.1 IT System Architects
- 1.4.2 Network Engineers
- 1.4.3 Cybersecurity Specialists
- 1.4.4 System Integration Engineers
- 1.4.5 Database Administrators
- 1.4.6 Security Operations Center Analysts

1.5 Security Operations Personnel

- 1.5.1 Security Systems Engineers
- 1.5.2 Physical Security Specialists
- 1.5.3 Access Control Administrators
- 1.5.4 Surveillance System Operators
- 1.5.5 Security Guards

1.6 Testing and Commissioning Personnel

- 1.6.1 System Testing Engineers
- 1.6.2 Quality Assurance Inspectors
- 1.6.3 Security Validation Experts
- 1.6.4 Equipment Commissioning Specialists

1.7 Training and Capacity Building Personnel

- 1.7.1 Training Coordinators
- 1.7.2 Machinery Operation Trainers
- 1.7.3 Security Procedure Trainers
- 1.7.4 IT Systems Trainers

1.8 Operations Transition Personnel

- 1.8.1 Operations Manager
 - 1.8.2 Facility Management Staff
 - 1.8.3 Production Supervisors
 - 1.8.4 Maintenance Technicians
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2. Equipment Resources

2.1 Construction Equipment

- 2.1.1 Excavators
- 2.1.2 Bulldozers
- 2.1.3 Cranes
- 2.1.4 Concrete Mixing Equipment
- 2.1.5 Structural Assembly Equipment

2.2 Printing Machinery

- 2.2.1 Banknote Printing Presses
- 2.2.2 Numbering Machines
- 2.2.3 Cutting and Finishing Machines

2.2.4 Quality Inspection Machines

2.2.5 Packaging and Bundling Equipment

2.3 Security Systems Equipment

2.3.1 CCTV Cameras

2.3.2 Biometric Access Devices

2.3.3 Intrusion Detection Sensors

2.3.4 Security Monitoring Servers

2.3.5 Alarm Control Panels

2.4 IT Infrastructure Equipment

2.4.1 Data Center Servers

2.4.2 Network Switches

2.4.3 Routers

2.4.4 Firewalls

2.4.5 Backup Storage Systems

3. Materials

3.1 Construction Materials

3.1.1 Reinforced Concrete

3.1.2 Structural Steel

3.1.3 Security Doors

3.1.4 Reinforced Vault Components

3.1.5 Fire Protection Materials

3.2 Production Materials

3.2.1 Banknote Printing Paper

3.2.2 Security Ink

3.2.3 Holographic Security Elements

3.2.4 Packaging Materials

4. Technology Resources

4.1 Software Systems

4.1.1 Production Management System

4.1.2 Inventory Tracking System

- 4.1.3 Access Control Software
- 4.1.4 Security Monitoring Platform

4.2 Cybersecurity Technologies

- 4.2.1 Intrusion Detection Systems
 - 4.2.2 Encryption Platforms
 - 4.2.3 Security Information and Event Management (SIEM) Systems
 - 4.2.4 Data Backup and Recovery Systems
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5. Facilities and Infrastructure

5.1 Production Facilities

- 5.1.1 Printing Production Halls
- 5.1.2 Finishing and Inspection Areas
- 5.1.3 Secure Vault Storage Areas

5.2 Operational Facilities

- 5.2.1 Security Monitoring Center
 - 5.2.2 Data Center Facility
 - 5.2.3 Administrative Offices
 - 5.2.4 Training Rooms
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6. External Resources

6.1 Contractors

- 6.1.1 Construction Contractors
- 6.1.2 Equipment Installation Contractors
- 6.1.3 Security System Integrators

6.2 Vendors and Suppliers

- 6.2.1 Printing Machinery Vendors
- 6.2.2 Security Technology Vendors
- 6.2.3 IT Infrastructure Vendors

6.3 Consultants and Auditors

6.3.1 Engineering Consultants

6.3.2 Security Certification Authorities

6.3.3 Independent Quality Auditors

Notes for Documentation

The Resource Breakdown Structure (RBS) organizes all project resources into hierarchical categories to support effective planning, resource allocation, and resource control throughout the project lifecycle. The RBS aligns with the Work Breakdown Structure (WBS) to ensure that each project deliverable has the necessary human resources, equipment, materials, and technological resources available for successful execution.

The RBS supports the Resource Management Plan by enabling accurate estimation of resource requirements, facilitating resource scheduling, and ensuring optimal utilization of available resources during each phase of the NCPBF project.