

DEPARTMENT OF THE ARMY

Procurement Programs



Committee Staff Procurement Backup Book

Fiscal Year 2012 Budget Estimate

JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT ORGANIZATION

APPROPRIATION

February 2011

Fiscal Year (FY) 2012 Budget Estimates



Attack the Network – Defeat the Device – Train the Force

February 2011

JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

Table of Contents - Joint Improvised Explosive Device Defeat Fund

Program Assessment 4

Fiscal Year (FY) 2012 Base Budget Request 11

Fiscal Year (FY) 2012 Overseas Contingency Operations Request 17

Exhibit P-40 Budget Item Justification 28

Program Assessment

Joint Improvised Explosive Device Defeat Organization (JIEDDO)

The improvised explosive device (IED) persists as the most serious threat to U.S. and Coalition forces in Afghanistan and Iraq. Recognizing the IED as an enduring battlefield condition, JIEDDO's mission is to lead all Department of Defense (DoD) actions and support Combatant Command efforts to eliminate the IED as the predominant strategic weapon against our Nation and its partners. This mission is executed across three concurrent and complementary lines of operation: attacking the networks that employ IEDs, devising ways to defeat the device, and training our forces to counter the threat. This FY 2012 Budget Estimate and Overseas Contingency Operations (OCO) Request is formulated to continue JIEDDO's counter-IED (C-IED) efforts to defeat the global, asymmetric threat posed by IEDs.

The Threat

IEDs are the weapon of choice for terrorists worldwide, requiring limited skills and giving them the ability to conduct spectacular attacks for a relatively small investment. Terrorists, from insurgent groups to anarchists, have discovered that the public relations benefit of explosive attacks far outweigh those of attacks using more conventional weapons. With easy access to commercial technologies, training via the Internet, and the ability to either manufacture or otherwise procure explosive materials, IEDs continue to provide the enemy with inexpensive, stand-off, precision weapon systems that often provide the attacker with near total anonymity. The current global IED threat is not limited to land-based emplacements and person-borne suicide devices, but also includes the possibility of diverse delivery systems such as water-borne and air-borne IEDs. Future IED operations and tactics may also be increasingly conducted or supported by both state and non-state sponsors.

In Afghanistan, Coalition Forces (CF) face a much different battle space than in Iraq. The operating environment varies from high mountains in the north and east to dry plains and deserts in the south and west. While the ethnic "mosaic" of Afghanistan may even be more diverse than Iraq, CF face a Pashtun-dominated insurgency led by the Taliban. The use of IEDs in Afghanistan has dramatically increased, steadily climbing since 2005. They tend to be less technologically sophisticated than those found in Iraq, but are often more effective due to their simplicity and emplacement techniques. They are often used as an initiator for complex attacks involving small unit ambush tactics and conventional weapons. IEDs are often buried in the predominately unpaved roads of Afghanistan. Simple devices, such as pressure plates, are common, often using fertilizer-based Homemade Explosive charges.

In Iraq, the use of IEDs against U.S. Forces (USF) has steadily declined since the summer of 2007 and are at their lowest levels since 2003. The decline is attributed to a number of factors including: more capable and confident Iraqi security forces, the withdrawal of U.S. combat brigades, the mission shift to training and advising, and the overall reduction of USF. These factors converged to create a more stable operating environment where Iraqi forces have taken over most offensive operations and the level of violence against USF has dropped. However, there remains a significant IED threat to Iraqi civilians, government, and security forces as various insurgent groups seek to target rivals and foster sectarian violence. This threat will also extend to USF who remain in Iraq conducting training and supporting missions with Iraqi forces.

IEDs will continue to threaten security forces throughout the world, growing in sophistication and frequency as more enemies of peace share information and realize the potential psychological, social, and political impact of this weapon. No other widely available terror weapon has more potential for mass media attention and strategic influence as does the IED.

The Response

The asymmetric, global IED threat requires a multi-faceted response. JIEDDO was established as a Joint entity and a Jointly-manned activity of DoD. This organizational structure facilitates collaboration and mission execution across DoD. JIEDDO is organized into four lines of operations (LOOs), of which three directly carry out its mission: Attack the Network, Defeat the Device, and Train the Force. JIEDDO develops the means to successfully disrupt the networks that fund, develop and employ IEDs; provides defenses at the point of attack; and enables the training of warfighters in the use of new equipment and tactics, techniques and procedures against emerging IED threats. JIEDDO executes a research and development (R&D) portfolio to address current and emerging IED threats and associated technology capability gaps. The Staff and Infrastructure LOO provides required support to the mission-oriented LOOs.

JIEDDO brings unprecedented synergy to the C-IED fight through its four critical mission areas:

- **Strategic Planning:** JIEDDO coordinates DoD's C-IED efforts and resources by integrating concepts and capabilities for the immediate needs of Combatant Commands and enabling capacity for the Services into the strategic vision to defeat IEDs as the asymmetric weapon of choice. JIEDDO articulates DoD's C-IED goals, priorities, and roles; and provides situational awareness through the development of the IED-focused Joint Common Operational Picture.
- **Rapid Acquisition:** As DoD's leader for C-IED investments, JIEDDO rapidly integrates the efforts of academia, industry, interagency, and joint forces to focus and coordinate key investments across the tactical, operational, and strategic battlespace. JIEDDO uses aggressive finding networks to identify solutions to persistently difficult, high-priority, technical, and operational capability gaps. The Joint IED Defeat Capability Approval and Acquisition Management Process (JCAAMP) is JIEDDO's model for aggressively seeking, acquiring and assessing potential solutions to C-IED capability gaps; and placing approved initiatives in the hands of the warfighter. This process enables JIEDDO to rapidly acquire systems and develop capabilities to meet urgent warfighter needs. JCAAMP also facilitates the transition to the Services of proven capabilities that are ultimately determined to be Service-related enduring C-IED capabilities.
- **Operations and Information Fusion:** By leveraging existing information, technology and forensic analysis operations data, JIEDDO is able to identify and provide fused information to the warfighter in a timely and relevant manner. JIEDDO also bridges current and future capability gaps by researching and developing innovative C-IED information fusion solutions.

- **Training and Operations Support:** In order to effectively deliver new equipment and network attack enablers to the warfighter, JIEDDO provides the Department with comprehensive C-IED requirements, prioritization and training support. JIEDDO and its Joint Center of Excellence (JCOE) provide critical operational requirements and training support by rapidly synchronizing input from deployed field teams, unit debriefs, and in-theater assessments by migrating the results to all four Services to ensure that deploying warfighters are supported against the current C-IED threats using proven tactics, techniques and procedures. Additionally, JIEDDO supports pre-deployment battle staff training for brigade and regimental combat teams, as well as division and corps headquarters.

Performance

Since its inception, JIEDDO has achieved success in its mission to defeat IEDs as weapons of strategic influence by reducing the number of Joint and Coalition Force casualties and disrupting insurgent networks. JIEDDO's current efforts cover more than 200 projects, including C-IED force protection, exploitation of device signatures, C-IED persistent surveillance, sensor data fusion, and network analysis.

Key accomplishments include:

- In support of the increased troop strength in Afghanistan, JIEDDO has provided significant support to deployed warfighters, including:
 - Self-Protection Adaptive Roller Kit (SPARK): More troops on the ground increase the number of vehicles patrolling Afghanistan's roads and the likelihood that those vehicles will encounter an IED. SPARK pre-detonates pressure-plate IEDs and trips command-wire IEDs ahead of the vehicle so that the roller, and not the crew cabin, takes the brunt of the blast. JIEDDO is supporting the surge with more than 1,500 SPARK systems.
 - Entry Control Point (ECP) Solutions: The surge in troop strength will also raise the number of forward operating bases (FOBs) in Afghanistan, increasing the number of entry points and the risk of suicide bombers breaching those points. JIEDDO is supporting the surge with more than 230 ECP solutions that detect suicide vest components to increase FOB security.
 - Weapons Technical Intelligence (WTI) Afghanistan Support Plan (WASP): WTI uses forensics and technical analysis to identify emerging threats and trends as well as individuals, funding, and technological capabilities within threat networks.
 - Counter-IED Teams: The Counter-IED Teams are part of JIEDDO's strategy to integrate key analytical capabilities into operationally focused teams. Forward-deployed to Afghanistan, these Counter-IED Teams integrate site exploitation with biometrics and other WTI findings to identify relevant trends and threats. These Counter-IED Teams

have the ability to support the warfighter by doing onsite collection and exploitation in post-blast settings. They find forensic, explosive, and other incident indicators to compile into a comprehensive analytical document.

In addition, as chartered by DoD to rapidly acquire C-IED capabilities to deliver solutions to warfighters within six to twenty-four months, JIEDDO seeks to transition or transfer proven C-IED initiatives to the Services, COCOMs, or government agencies for lifecycle management and sustainment. Timely transitions and transfers of initiatives not only enables JIEDDO to apply limited resources to the most urgent emerging C-IED requirements, but ensures the developed C-IED technologies continue to aid warfighters in theater. By the beginning of FY 2012, JIEDDO will have transitioned and transferred over 120 initiatives. Recent initiatives include:

- Vehicle Optics Sensor System (VOSS): Explosive Ordnance Disposal (EOD) and route clearance teams use this day-night, thermal imaging camera mounted on a telescoping mast to detect IEDs and IED emplacement activities. JIEDDO funded 538 VOSS systems and transferred this initiative to the Army in FY 2009.
- Route Clearance Optics System (RCOS): RCOS is an enhanced optics system configured especially for route clearance teams. Route clearance teams use RCOS to identify IEDs and emplacement activity along routes. JIEDDO has procured over 45 systems for route clearance operations in Afghanistan and plans to transfer this initiative to Army in FY 2011.
- Home Station Training Lanes: Over the course of 16 months, JIEDDO was able to assist the Services in creating and upgrading 57 home station training lanes at 55 locations, encompassing over 150 C-IED training initiatives. This program transferred to the Army, Navy, Air Force, and Marine Corps in FY 2010.

The funds requested for FY 2012 are needed to sustain JIEDDO's rapid acquisition capability as well as its research and development efforts to reduce the effect of IEDs as weapons of strategic influence. JIEDDO quickly delivers solutions to the warfighter and develops future solutions to close current and emerging capability gaps. JIEDDO leads DoD's efforts to identify, acquire and develop capabilities to defeat IEDs and the networks that emplace them. The FY 2012 JIEDDF estimate is formulated to maintain C-IED capability readiness in support of existing and emerging Overseas Contingency Operations.

FY 2012 Base Budget Estimate



Attack the Network – Defeat the Device – Train the Force

February 2011

JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

TABLE OF CONTENTS

Fiscal Year (FY) 2012 Base Budget Request..... 11
 Part I – PURPOSE AND SCOPE..... 11
 PART II – JUSTIFICATION OF FUNDS REQUIRED 11
LINE OF OPERATION 4: STAFF AND INFRASTRUCTURE 12
 Part I – PURPOSE AND SCOPE..... 12
 PART II – JUSTIFICATION OF FUNDS REQUIRED 12
 PART III – PROGRAM DESCRIPTIONS 13

Fiscal Year (FY) 2012 Overseas Contingency Operations Request 17
 PART I – PURPOSE AND SCOPE 17
 PART II – JUSTIFICATION OF FUNDS REQUIRED 17
LINE OF OPERATION 1: ATTACK THE NETWORK..... 18
 PART I – PURPOSE AND SCOPE 18
 PART II – JUSTIFICATION OF FUNDS REQUIRED 18
 PART III – PROGRAM DESCRIPTIONS 18
LINE OF OPERATION 2: DEFEAT THE DEVICE 20
 PART I – PURPOSE AND SCOPE 21
 PART II – JUSTIFICATION OF FUNDS REQUIRED 21
 PART III – PROGRAM DESCRIPTIONS 21
LINE OF OPERATION 3: TRAIN THE FORCE 24
 Part I – PURPOSE AND SCOPE..... 24
 PART II – JUSTIFICATION OF FUNDS REQUIRED 24
 PART III – PROGRAM DESCRIPTIONS 25

Exhibit P-40 Budget Item Justification 28

The Joint Improvised Explosive Device Defeat Organization (JIEDDO) leads Department of Defense actions to rapidly provide counter-IED capabilities in support of the Combatant Commanders and to enable the defeat of the IED as a weapon of strategic influence, striking a balance of focused information fusion, technology and training. The IED has evolved into the weapon of choice for insurgent, terrorist and even criminal networks throughout the world. Easy to produce, inexpensive and effective, IEDs remain a persistent global threat, and while Joint and Coalition Forces respond with the most current C-IED measures, the enemy develops a myriad of new threats, ranging from the rudimentary to highly sophisticated, leveraging unconstrained resources and fast-paced technology. Therefore, the Department requests for expenses, not otherwise provided, necessary for the FY 2012 Joint Improvised Device Defeat Fund (JIEDDF) in the amount of \$220,634,000 to become available on October 1, 2011 and to remain available until September 30, 2014. The FY 2012 Budget Estimate will support JIEDDO's C-IED activities, which require adequate fiscal and management flexibility to develop and field materiel, non-materiel and training solutions to defeat IEDs as weapons of strategic influence.

Fiscal Year (FY) 2012 Budget Request

	(In Thousands of Dollars)
FY 2012 Base Request	\$220,634
FY 2011 Base Request	\$215,868
FY 2010 Base Budget	\$121,550

Part I - PURPOSE AND SCOPE

Defeating the strategic influence of IEDs requires a comprehensive approach combining strategic to tactical unified whole of government action that aggressively disrupts the networks that fund, support and emplace IEDs; and defends at the point of attack. A multi-faceted strategy, balancing materiel and non-materiel initiatives, focused information fusion, and training will ultimately decrease the strategic influence of IEDs. JIEDDO executes this strategy by leading, advocating and coordinating all DoD C-IED efforts. To that end, JIEDDO operates along four lines of operation (LOOs) to carry out its mission: Attack the Network, Defeat the Device, Train the Force, and Staff and Infrastructure. JIEDDO is established as a Joint entity and is a Jointly-manned activity of DoD. This structure facilitates collaboration and mission execution across DoD.

PART II - JUSTIFICATION OF FUNDS REQUIRED

The funds requested in the FY 2012 Budget Estimate are needed to sustain JIEDDO's unique ability to find and procure C-IED solutions to existing and emerging capability gaps in order to defeat IEDs as weapons of strategic influence. JIEDDO leads DoD's efforts to identify, acquire and develop capabilities to defeat IEDs and the networks that emplace them. As such, this funding is critical in defeating the clear and present danger that IEDs pose to national security.

The JIEDDO FY 2012 Budget Estimate provides for strategic planning, workforce continuity, infrastructure requirements, and technology development to support JIEDDO's mission needs.

LINE OF OPERATION 4: STAFF AND INFRASTRUCTURE

	(In Thousands of Dollars)
FY 2012 Request	\$220,634
FY 2011 Request	\$215,868
FY 2010 Budget	\$121,550

Part I - PURPOSE AND SCOPE

JIEDDO's Staff and Infrastructure line of operation provides critical support through civilian personnel, contractor support services, information technology, travel, and supplies that enable the organization to achieve its missions. JIEDDO headquarters is comprised of the Command Group, the Director's Special Staff, the Deputy Director of Operations and Requirements, the Deputy Director of Operations Integration, the Deputy Director of Training, and the Deputy Director of Rapid Acquisition and Technology.

PART II - JUSTIFICATION OF FUNDS REQUIRED

The FY 2012 Budget Estimate reflects JIEDDO's mission to defeat the global IED threat through the sustainment of staff and infrastructure. This funding supports JIEDDO's enduring requirements to achieve its mission objectives: strategic planning, rapid acquisition, operations and intelligence fusion, and training and operations support.

PART III -- PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Staff and Infrastructure	Human Capital:	152,234,000
	Civilian Personnel	61,800,000
	Contractor Support Services (CSS)	80,934,000
	Reserve MOB DES	9,500,000
	Information Technology / Communications	37,900,000
	Facilities	20,500,000
	Travel	4,700,000
	Other (Supplies)	5,300,000
Staff and Infrastructure Total		\$220,634,000

- **Human Capital:** This request supports JIEDDO’s efforts to staff the organization with the proper mix of military, government civilians and contractor support with the focus of putting the right skill sets in the right positions at the right time. Building a well-balanced, world-class workforce with the knowledge, skills and abilities necessary to accomplish JIEDDO’s mission both now and in the future requires the institution of a robust framework of policies and processes to attract, develop and retain quality people. This request reflects the conversion of contract manpower equivalents (CME) to government civilian billets in accordance with the Deputy Secretary of Defense’s “In-sourcing Contracted Services – Implementation Guidance” signed 28 May 2009. Additionally, this request would provide funding for mobilized Reservists to augment the JIEDDO workforce, providing critical skills and experience.
- **Information Technology / Communications:** This request funds the maintenance and upgrade of hardware and software; the enhancement and maintenance of the JIEDDO Enterprise Management System (JEMS); records management; and software licensing support within a strategy that enables JIEDDO to accomplish its C-IED missions in a secure, net-centric, knowledge-based environment. Communication enhancements and technological upgrades will continually be sought and integrated into the physical layout to further enhance JIEDDO’s efficiency and productivity.
- **Facilities:** This request funds the physical infrastructure that supports JIEDDO’s world-class workforce. Facility expansion supports the full complement of personnel and allows for the close coordination and facilitation of group meetings in a secure environment.
- **Travel:** This request supports JIEDDO’s efforts to maintain relevance to the warfighter, domestically and internationally.
- **Other (supplies):** This request provides funding for other costs including supplies, office equipment, and other office activities.

FY 2012

Overseas Contingency Operations Request



Attack the Network – Defeat the Device – Train the Force

February 2011

JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

TABLE OF CONTENTS

Fiscal Year (FY) 2012 Overseas Contingency Operations Request	17
PART I – PURPOSE AND SCOPE.....	17
PART II – JUSTIFICATION OF FUNDS REQUIRED.....	17
LINE OF OPERATION 1: ATTACK THE NETWORK.....	18
PART I – PURPOSE AND SCOPE.....	18
PART II – JUSTIFICATION OF FUNDS REQUIRED.....	18
PART III – PROGRAM DESCRIPTIONS.....	18
LINE OF OPERATION 2: DEFEAT THE DEVICE.....	20
PART I – PURPOSE AND SCOPE.....	21
PART II – JUSTIFICATION OF FUNDS REQUIRED.....	21
PART III – PROGRAM DESCRIPTIONS.....	21
LINE OF OPERATION 3: TRAIN THE FORCE.....	24
Part I – PURPOSE AND SCOPE	24
PART II – JUSTIFICATION OF FUNDS REQUIRED.....	24
PART III – PROGRAM DESCRIPTIONS.....	25
Exhibit P-40 Budget Item Justification	28

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

Improvised explosive devices (IEDs) in the hands of insurgents and terrorists remain a critical threat to the safety of Joint and Coalition Forces in Afghanistan and Iraq, as well as to longer-term U.S. strategic interests. Easy to produce, inexpensive and effective, IEDs remain a persistent global threat, and while Joint and Coalition Forces respond with the most current counter-IED (C-IED) measures, the enemy develops a myriad of new threats, ranging from the rudimentary to highly sophisticated, leveraging unconstrained resources and fast-paced technology. The FY 2012 Overseas Contingency Operations (OCO) request of \$2,577,500,000 will provide the Joint IED Defeat Organization (JIEDDO) with the necessary funding and management flexibility to rapidly develop and field materiel and non-materiel C-IED solutions and to support realistic and timely C-IED training for deployed and deploying warfighters.

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

Fiscal Year (FY) 2012 Overseas Contingency Operations Request

	(In Thousands of Dollars)
FY 2012 OCO Request	\$2,577,500
FY 2011 OCO Request	\$3,250,000
FY 2010 OCO Budget	\$1,762,010

PART I – PURPOSE AND SCOPE

The Joint Improvised Explosive Device Defeat Fund (JIEDDF) provides funding for the Joint Improvised Explosive Device Defeat Organization (JIEDDO). Defeating the strategic influence of all forms of improvised explosive devices (IEDs) against Joint and Coalition Forces requires a comprehensive approach that combines an aggressive offense with a solid defense – ahead of enemy innovations. JIEDDO leads Department of Defense (DoD) actions to rapidly provide counter-IED (C-IED) capabilities in support of the Combatant Commanders and to enable the defeat of the IED as a weapon of strategic influence, striking a balance of focused information fusion, technology and training. JIEDDO is organized into four lines of operations (LOOs), of which three directly carry out its missions: Attack the Network, Defeat the Device and Train the Force. JIEDDO was established as a Joint entity and a Jointly-manned activity of DoD. This organizational structure facilitates collaboration and mission execution across DoD. JIEDDO develops the means to successfully disrupt the networks that fund, develop and employ IEDs; and provides defenses at the point of attack. Additionally, JIEDDO enables the training of warfighters in the use of new equipment and tactics, techniques, and procedures against emerging IED threats. The FY 2012 Overseas Contingency Operations (OCO) request is formulated to rapidly deliver to the warfighter effective C-IED solutions in order to eliminate the IED as a weapon of strategic influence.

PART II – JUSTIFICATION OF FUNDS REQUIRED

The FY 2012 OCO request supports JIEDDO's unique ability to achieve decisive results from concept to rapidly-delivered capabilities in the effort to defeat IEDs. Through the synergy created by leveraging the interactions of the LOOs, DoD has achieved an unprecedented capability to respond rapidly and effectively to this challenge. The Joint IED Defeat Capability Approval and Acquisition Management Process (JCAAMP) is the operational model by which JIEDDO aggressively seeks, acquires and assesses potential C-IED solutions for operational deployment, often in response to Joint Urgent Operational Needs (JUONs) and in conjunction with the Services. JCAAMP supports all of JIEDDO's LOOs and rapidly takes both materiel and non-materiel initiatives through the evaluation, approval, acquisition, operational assessment, sustainment and transition phases.

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

LINE OF OPERATION 1: ATTACK THE NETWORK

	(In Thousands of Dollars)
FY 2012 OCO Request	\$1,368,800
FY 2011 OCO Request	\$1,434,400
FY 2010 OCO Budget	\$865,100

PART I – PURPOSE AND SCOPE

The offensive portion of the IED fight, Attack the Network, is the cornerstone of the Department’s C-IED strategy. JIEDDO is aligned with U.S. Central Command’s campaign and has identified the necessary resources to support this critical operation. JIEDDO also provides enabling capabilities to Combatant Commands (COCOMs) and their subordinate units to conduct offensive operations against the complex enemy network of financiers, IED makers, trainers and their supporting infrastructure. This activity also supports the procurement of capabilities to attack IED networks and establishes net-centric C-IED operations in theater.

PART II – JUSTIFICATION OF FUNDS REQUIRED

The FY 2012 OCO request provides the capability to identify, attack and disrupt the enemy’s IED networks. JIEDDO supports the warfighter by developing, procuring, integrating and sustaining new technologies; providing tools for modeling and simulation and fusing information. Moreover, this funding will continue to support JIEDDO’s cornerstone C-IED strategy by creating one common portal for all users to access information fusion sources relevant to the C-IED fight including difficult to obtain information from deployed forces; analyzing terrorist groups operating in theater at tactical, operational, and strategic levels, and anticipating the second and third-order effects of adversary adaptation.

PART III – PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Attack the Network	Joint Urgent Operational Need (JUON)	571,582,010
	Strategic Investments	147,194,971
	Network Attack	650,023,019
Attack the Network Total		\$ 1,368,800,000

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

- **Joint Urgent Operational Need (JUON):** Emerging, immediate needs identified by Combatant Commanders and their respective Joint Task Forces that are considered life- or combat mission-threatening to which JIEDDO rapidly develops and deploys C-IED solutions. The FY 2012 OCO request is derived from historical experience as well as current trends and anticipated needs, based on emerging and persistent threats. The request also funds the sustainment of JIEDDO-funded JUON requirements not yet terminated, transitioned or transferred to the Services or other agencies.
- **Strategic Investments:** Non-JUON initiatives that capitalize on opportunities to deploy C-IED materiel and non-materiel solutions outside the JUON process. These initiatives focus on technologies that are aimed at disrupting IED networks (e.g. financiers, bomb makers, trainers, etc.).
- **Network Attack:** C-IED efforts in disrupting and destroying complex networks. These efforts provide analytical and technological support to warfighters in their operational environment.
 - **Operations and Information Fusion Support:** The Counter-IED Operations Integration Center (COIC) maintains a Joint common operational and information picture of worldwide IED systems and is positioned to support COCOMs with fast, accurate, fused multi-source information, operational analyses, technical products, as well as training support. This funding will support the information technology and communications architecture that provides data for detailed analyses that facilitate real-time collaboration with the warfighter.
 - **Technical Managers and Support Staff:** Source analysts who provide critical information, as well as unique insight into systems and data, to forces in-theater that enable offensive operations to defeat IED networks. These capabilities permit the warfighter to properly leverage actionable Attack the Network products.
 - **Global Information Grid Bandwidth:** The information and communications architecture that provides data for detailed analyses that facilitate real-time collaboration with the in-theater warfighter.
 - **JIEDDO COIC Analytical Support Team (JCAST):** Operations teams, comprised of military and civilian personnel, who deploy in support of Overseas Contingency Operations coordinate the dissemination of new C-IED technologies, tactics and techniques and act as conduits of information back to JIEDDO.

This area also addresses persistent and emerging threats by diminishing associated capability gaps. Through the maintenance of a robust R&D capability, JIEDDO provides enhancements to existing technologies as well as innovative

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

solutions to IED network threats. These investments are necessary to make network-breaking advancements, and to mature technologies so that they can be developed and evaluated in theater for fielding. This funding also provides funding for JIEDDO's Broad Area Announcement (BAA) Information Delivery System (BIDS) proposals to find C-IED network solutions.

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

LINE OF OPERATION 2: DEFEAT THE DEVICE

	(In Thousands of Dollars)
FY 2012 OCO Request	\$961,200
FY 2011 OCO Request	\$1,529,390
FY 2010 OCO Budget	\$735,100

PART I – PURPOSE AND SCOPE

The Defeat the Device line of operation develops solutions designed to thwart the impact of emplaced IEDs, including technologies that assist in detecting IEDs from greater distances, mitigating blast effects, protecting against blast injuries, and safely disarming or detonating IEDs before enemy activation. JIEDDO delivers solutions to Combatant Commanders to find and defeat IEDs at the point of attack, thereby reducing casualties and enhancing Commanders’ freedom of action.

PART II – JUSTIFICATION OF FUNDS REQUIRED

The FY 2012 OCO request provides the capability to prevent, neutralize and mitigate the effect of IEDs. JIEDDO supports the warfighter by developing, procuring, integrating and quickly deploying new materiel solutions, as well as conducting research and development to find future solutions. The resulting C-IED capabilities are made available to the warfighter at the required tactical levels.

PART III – PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Defeat the Device	Joint Urgent Operational Need (JUON)	604,468,750
	Strategic Investments	181,731,250
	JIEDDO Test Environment	175,000,000
Defeat the Device Total		\$ 961,200,000

- The Defeat the Device LOO develops and provides capabilities to warfighters to detect, neutralize and mitigate IEDs and their effects. The detect functional capability is the extraction of information from objects and activities associated with IEDs (fabrication, transportation, and employment) or components of IEDs and in sufficient time to achieve a favorable outcome. The neutralize functional capability provides the means to disable, disrupt or pre-detonate IEDs or their sub-components.

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

The mitigate functional capability lessens or minimizes the severity of IED-related events through enhancement of protection. New capabilities will enhance the protection of military personnel by mitigating the blast effects of IEDs. This request will support efforts to provide the following capabilities:

- Detect, neutralize or mitigate buried IEDs or pressure initiation devices: Buried IEDs are emplaced on or under the ground with the intent to detonate them beneath vehicles and personnel. The most common initiators for buried IEDs are pressure switches and command wires. Detecting buried IEDs is a significant technical challenge. JIEDDO's investments will encompass technologies intended to directly detect the device in situations and technologies intended to detect signs of emplacement, by change detection or by identifying the characteristic signatures of disturbed earth and other artifacts.
- Provide stand-off detection and confirmation of explosives or chemical compounds associated with explosives: Explosives detection is defined as the ability to find explosives associated with a threat when there is no prior evidence of the presence of a target material or other cueing indicator. Explosives confirmation is the ability to determine the composition of a material at a suspicious location.
- Detect, neutralize or mitigate person-borne and vehicle-borne IEDs: Person-borne IED (PBIED) detection and verification requires fast, multimodal, surreptitious interrogation of each individual in a moving, unstructured crowd from a standoff distance. Vehicle-borne IED (VBIED) detection and verification requires similar interrogation of a moving vehicle in traffic from a stand-off distance. This budget request supports JIEDDO's efforts to develop components and system-of-systems technologies that will measurably improve DoD capability to detect PBIEDs and VBIEDs.
- Explosive Ordnance Disposal (EOD) tools to remotely image and disrupt IEDs: The objective is to develop systems which enable EOD technicians to remotely image found IEDs, characterize/categorize components, and then precisely aim and fire a disruptor, disabling the IED.
- **Joint Urgent Operational Need (JUON):** Emerging, immediate needs identified by Combatant Commanders and their respective Joint Task Forces that are considered life- or combat mission-threatening to which JIEDDO rapidly develops and deploys C-IED solutions. The FY 2012 OCO request is derived from historical experience as well as current trends and anticipated needs, based on emerging and persistent threats. The request also funds the sustainment of JIEDDO-funded JUON requirements not yet terminated, transitioned or transferred to the Military Services or other Agencies.

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

- **Strategic Investments:** Non-JUON initiatives that capitalize on opportunities to deploy C-IED materiel solutions outside the JUON process. These funds focus on technologies that are aimed at detecting, neutralizing and mitigating IEDs.

This category also addresses efforts to address persistent and emerging threats by diminishing associated gaps. Through the maintenance of a robust Research & Development capability, JIEDDO provides enhancements to existing technologies as well as innovative solutions to emplaced IED threats. These investments are necessary to make advancements and to mature technologies so that they can be developed and evaluated in theater for fielding, including those solutions that address the complex and ever-changing scope of some threats and capability gaps, necessitating a slightly longer and larger investment. This funding provides JIEDDO the flexibility to react quickly to more sophisticated threats and get ahead of those that may follow.

- **JIEDDO Testing Environment:** The funding requested for the JIEDDO Test Board (JTB) supports the coordination and synchronization of test and evaluation (T&E) resources to ensure that JIEDDO's C-IED materiel solutions are adequately tested and evaluated prior to being fielded. Specifically, this funding supports operational assessments, ensuring that DoD leadership has the adequate information to make critical investment decisions. In addition, modeling and simulation maximizes mission effectiveness by providing consistent, real-time information to the warfighter by bridging the gap between the developmental and warfighting communities.

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

LINE OF OPERATION 3: TRAIN THE FORCE

	(In Thousands of Dollars)
FY 2012 OCO Request	\$247,500
FY 2011 OCO Request	\$286,210
FY 2010 OCO Budget	\$161,810

Part I – PURPOSE AND SCOPE

The best asset on the battlefield is a well-led, trained, situationally-aware Soldier, Sailor, Airman or Marine. JIEDDO supports demanding training requirements to prepare units prior to and during deployment for operations in an intense, fluid IED environment. In order to enable Joint Forces, in partnership with Coalition Forces, to proactively defeat the IED threat in continuing operations, JIEDDO-sponsored initiatives facilitate individual and collective training and propagate IED defeat tactics, techniques and procedures.

PART II – JUSTIFICATION OF FUNDS REQUIRED

The FY 2012 OCO request procures critical C-IED training equipment, exports training capabilities to multiple locations, provides pre-deployment C-IED training to service members, and fuses IED defeat training efforts across the Services in an integrated approach that supports a Joint operating environment.

JIEDDO sponsors C-IED training at each of the Services' major training centers for military personnel. For pre-deployment training, units use C-IED surrogate equipment replicating actual equipment found in theater. This training is designed for the entire chain of command from the individual warfighter to the senior leader, and includes unit collective training. Training consists of seminar work and accompanying practical exercises, covering topics such as the IED threat and countermeasures, device components, types of attacks, route reconnaissance and clearing, and current in-theater trends. The training, supported by seasoned C-IED instructors with recent in-theater experience, occurs at home station and at Service training centers. Training personnel are continually rotated in and out of theater to ensure that deploying warfighters are receiving information on current theater trends and valid experience with C-IED tactics, techniques and procedures. Specialized units, such as the Explosive Ordnance Disposal (EOD) and route clearance teams, are constantly refining their techniques and procedures against IEDs with the assistance of JIEDDO personnel.

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

PART III – PROGRAM DESCRIPTIONS

Line of Operation	JIEDDO Requirements	Total
Train the Force	Joint Center of Excellence	124,894,583
	Counter-IED Training Support	122,605,417
Train the Force Total		\$ 247,500,000

- **Joint Center of Excellence:** The Joint Center of Excellence (JCOE) continues to assist combat training centers in their efforts to improve C-IED training for individuals, units, and battle staff through an aggressive effort to create and integrate training enablers and more realistic C-IED battlefield conditions. This funding request supports the operations of the JCOE, its distributed centers of excellence, and various other C-IED training support requirements. It also includes the funding costs associated with training and strategic engagements in four disparate geographical locations for C-IED training in support of Joint Forces.
- **Counter-IED Training Support:** Joint C-IED training saves lives and significantly enhances C-IED effectiveness. Mitigating the effects of enemy IED employment through comprehensive training of our forces puts troops in the field who are situationally aware and who know their gear. Given the joint nature of this area, JIEDDO is considered by the Combatant Commanders as the provider of choice for this critical enabler, and as such, support efforts in the following areas to ensure C-IED training gaps are closed expeditiously:
 - Non-Material Training Solutions: Provides a Train-the-Trainer capability in support of pre-deployment training.
 - Live, Virtual, Constructive, Gaming (LVCG): Provides C-IED LVCG training capabilities that will mitigate near-term training gaps.
 - Training Capacity: Improves the through-put of a C-IED training capability until a Service can accommodate the new requirements.
 - Materiel Support: Provides C-IED equipment currently employed in theater that is not readily or immediately available for pre-deployment training.

JUSTIFICATION OF FISCAL YEAR (FY) 2012 OVERSEAS CONTINGENCY OPERATIONS
JOINT IMPROVISED EXPLOSIVE DEVICE DEFEAT FUND

- Training Environment: Sets conditions at Combat Training Centers, Home Stations, and other major through-put venues that facilitate training under realistic conditions. JIEDDO works in concert with Service long-range plans for improvements to and modernization of training environments.
- Proliferation of Tactics, Techniques and Procedures (TTPs): Provides a capability that assists in TTP development, as well as training on TTPs currently applied in theater.

Page intentionally left blank

UNCLASSIFIED

Exhibit P-40 Budget Item Justification				Date: February 2011				
Appropriation (Treasury) Code/CC/BA/BSA/Item Control Number 2093/Joint Improvised Explosive Device Defeat Fund				P-1 Line Item Nomenclature Joint Improvised Explosive Device Defeat Organization				
Program Element for Code B Items:				Other Related Program Elements:				
Procurement Items Cost (\$ in millions)	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	Total
Proc Qty								
Gross Cost								
Less PY Adv Proc								
Plus CY Adv Proc								
Net Proc (=P-1)								
Initial Spares								
Total Proc Cost	\$ 1,883.6**	\$ 3,465.9**	\$2,798.1**	TBD	TBD	TBD	TBD	TBD
Flyaway U/C								
Wpn Syst Proc U/C								
** Combination of Base and OCO								
DESCRIPTION:								
<u>Joint Improvised Explosive Device Defeat Organization (JIEDDO) (\$2,798.1M)</u>								
<p>The Joint Improvised Explosive Device Defeat Fund (JIEDDF) is the sole funding source for JIEDDO. Defeating the strategic influence of all forms of improvised explosive devices (IEDs) against Joint and Coalition Forces requires a comprehensive approach that combines an aggressive offense with a solid defense – ahead of enemy innovations. Recognizing the IED as an enduring battlefield condition, JIEDDO’s mission is to lead all Department of Defense actions and support Combatant Command efforts to eliminate the IED as the predominant strategic weapon against our nation and its partners. This mission is executed across three concurrent and complementary lines of operation: attacking the networks that place IEDs, devising ways to defeat the device, and training our forces to counter the threat. JIEDDO develops the means to successfully disrupt the networks that fund, develop and employ IEDs; and provides defenses at the point of attack. Additionally, JIEDDO enables the training of warfighters in the use of new equipment and tactics, techniques and procedures (TTPs) against emerging IED threats. The FY 2012 estimate is formulated to maintain Counter-IED (C-IED) capability readiness in support of existing and emerging Overseas Contingency Operations; and to rapidly deliver effective C-IED solutions to theater that seek to eliminate IEDs as weapons of strategic influence.</p>								

UNCLASSIFIED

Base Budget Request (\$220.6M):

Defeating the strategic influence of IEDs requires a comprehensive approach that aggressively disrupts the networks that fund, support, and emplace IEDs; and defends at the point of attack. A multi-faceted strategy balancing materiel and non-materiel initiatives, focused information fusion and training is required to decrease the strategic influence of IEDs. JIEDDO has the mission to defeat the global IED threat beyond its support of current operations. The FY 2012 Budget Estimate funds JIEDDO's core C-IED capabilities to address future IED threats wherever they may emerge.

Overseas Contingency Operations Request (\$2,577.5M):

IEDs remain a critical threat to the safety of Joint and Coalition Forces in Afghanistan and Iraq, as well as to longer-term U.S. strategic interests. This request allows JIEDDO to bring its unique rapid acquisition capabilities to bear in support of the current overseas contingency operations to quickly close emerging capability gaps and deliver timely C-IED solutions to the warfighter. JIEDDO leverages the synergy created by the interactions of its lines of operation and uses the Joint IED Defeat Capability Approval and Acquisition Management Process (JCAAMP) as its operational model to aggressively seek, acquire and assess potential C-IED solutions for operational deployment; most of which are fielded in direct response to Joint Urgent Operational Needs (JUONs) and in conjunction with the Services. This process enables JIEDDO to rapidly acquire systems and develop capabilities to meet warfighter needs, normally within six to twenty-four months, transitioning to the Services those initiatives ultimately determined to have a Service-related C-IED capability.

Line of Operation 1: Attack the Network (\$1,368.8M)

Attack the Network Overseas Contingency Operations Request (\$1,368.8M):

FY 2012 OCO request will furnish the means to develop and deliver capability solutions designed to identify, attack and disrupt the enemy's IED networks. JIEDDO supports the warfighter by developing, procuring, integrating and sustaining new technologies, tools for modeling and simulation and fusing information. The Attack the Network line of operation includes actions and activities designed to reduce IED effects and interrupt the enemy's chain of IED activities by identifying and exploiting vulnerabilities and enabling offensive operations. This effort is accomplished through intelligence, surveillance, reconnaissance, information operations, counter-bomber targeting, technical and forensic exploitation of devices, and persistent surveillance directed towards defeating the enemy's capabilities.

UNCLASSIFIED

Line of Operation 2: Defeat the Device (\$961.2M)

Defeat the Device Overseas Contingency Operations Request (\$961.2M)

FY 2012 OCO request supports the development and fielding of materiel solutions to emerging JUONs as well as the sustainment of those JUONs previously funded by JIEDDO; up to the point that they are transferred or transitioned to the Services or other agencies or terminated. Funds are also required to make initial investments to counter emerging threats and to capitalize on unforeseen opportunities to deploy C-IED materiel solutions outside of the JUON process. These resulting C-IED materiel solutions are then made available to the warfighter at the appropriate levels to support operational planning and execution. This request will support efforts to provide the following capabilities: detect, neutralize or mitigate buried IEDs or pressure initiation devices; provide stand-off detection and confirmation of explosives or chemical compounds associated with explosives; detect, neutralize or mitigate person-borne and vehicle-borne IEDs; explosive ordnance disposal (EOD) tools to remotely image and disrupt IEDs; and airborne wire detection systems.

Line of Operation 3: Train the Force (\$247.5M)

Train the Force Overseas Contingency Operations Request (\$247.5M)

The FY 2012 OCO request enables JIEDDO to procure critical C-IED training equipment, export training capabilities to multiple locations, provide pre-deployment C-IED training to service members and fuse IED defeat training efforts across the Services in an integrated approach that supports a Joint operating environment. JIEDDO sponsors C-IED training for military personnel at each of the Services' major training centers that is designed for the entire chain of command from the individual warfighter to the senior leader, including unit collective training. Training support consists of seminars and practical exercises, covering topics such as the theater-specific IED threat and countermeasures, device components, types of attacks, route reconnaissance and clearing and current in-theater trends. The training is supported by seasoned C-IED instructors with recent in-theater experience and occurs at both home station and Service training centers. Training personnel are continually rotated in and out of theater to ensure that deploying warfighters are receiving information on current theater trends and combat proven C-IED tactics, techniques and procedures. For pre-deployment training, units use C-IED surrogate equipment replicating actual equipment found in theater. Specialized units such as the Explosive Ordnance Disposal (EOD) and route clearance teams, constantly refine their techniques and procedures against IEDs with the assistance of JIEDDO personnel.

UNCLASSIFIED

Line of Operation 4: Staff and Infrastructure (\$220.6M)

Staff and Infrastructure Budget Estimate (\$220.6M)

The FY 2012 base budget request reflects JIEDDO's enduring mission to defeat the global and long-term IED threat. The request supports JIEDDO's critical support structure in terms of civilian salaries, contractor support services, information technology, travel, supplies, building and vehicle leases and other operating expenses that are necessary to the success of the Attack the Network, Defeat the Device, and Train the Force lines of operation.