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Exhibit R-2, RDT&E Budget Item Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>	R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense (Budget Activity 4)</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
Total Program Element	-	2.000	2.020	2.040	-	2.040	-	-	-	-	-	-
DS4: <i>Integrated Base Defense</i>	-	2.000	2.020	2.040	-	2.040	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

The Fiscal Year (FY) 2022 Direct War/Enduring Operations dollars in the amount of \$2.040 million in Project DS4 will continue to support the Integrated Base Defense (IBD) integration and testing of software and hardware along with the development of analytical capabilities to support force protection systems and capabilities in the field as part of the Counter Vehicle Borne Improvised Explosive Device (CVBIED) program. IBD employs an enterprise approach to enable IBD capabilities across the operational spectrum by leveraging interoperability efforts in support of the Integrated Unit, Base, and Installation Protection framework focused on systems engineering, software development, and testing.

Counter Vehicle Borne Improvised Explosive Device (CVBIED) is an integrated suite of systems developed in response to CENTCOM JUONS CC-0540. The CVBIED program provides an early VBIED detection capability prior to vehicles reaching entry into Forward Operating Bases. Additional sensor systems are being integrated into the current Force Protection infrastructure as part of CVBIED.

B. Program Change Summary (\$ in Millions)	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022 Base</u>	<u>FY 2022 OCO</u>	<u>FY 2022 Total</u>
Previous President's Budget	2.000	2.020	0.000	-	0.000
Current President's Budget	2.000	2.020	2.040	-	2.040
Total Adjustments	0.000	0.000	2.040	-	2.040
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	-	-	2.040	-	2.040

Change Summary Explanation

Fiscal Year 2022 (FY22) increase for the continued development, integration and testing of CVBIED technologies into the current Force Protection infrastructure to address capabilities gaps within JUONS CC-0540.

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Exhibit R-2A, RDT&E Project Justification: PB 2022 Army **Date:** May 2021

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense (Budget Activity 4)</i>	Project (Number/Name) DS4 / <i>Integrated Base Defense</i>
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COST (\$ in Millions)	Prior Years	FY 2020	FY 2021	FY 2022 Base	FY 2022 OCO	FY 2022 Total	FY 2023	FY 2024	FY 2025	FY 2026	Cost To Complete	Total Cost
DS4: <i>Integrated Base Defense</i>	-	2.000	2.020	2.040	-	2.040	-	-	-	-	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-	-	-

A. Mission Description and Budget Item Justification

Integrated Base Defense (IBD) RDT&E funding provides for the integration and testing of software and hardware along with the development of analytical capabilities to support force protection systems and capabilities in the field as part of the Counter Vehicle Borne Improvised Explosive Device (CVBIED) program. IBD employs an enterprise approach to enable IBD capabilities across the operational spectrum by leveraging interoperability efforts in support of the Integrated Unit, Base, and Installation Protection framework focused on systems engineering, software development and testing.

Counter Vehicle Borne Improvised Explosive Device (CVBIED) is an integrated suite of systems developed in response to CENTCOM JUONS CC-0540. The CVBIED program provides an early VBIED detection capability prior to vehicles reaching entry into Forward Operating Bases. Additional sensor systems are being integrated into the current Force Protection infrastructure as part of CVBIED.

OCO funding in the amount of \$2.040 million in FY22 supports continued integration of CVBIED technologies into the current Force Protection infrastructure to address capabilities gaps with JUONS CC-0540.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2020	FY 2021	FY 2022
Title: CVBIED Design and Build	2.000	2.020	2.040
Description: RDT&E efforts continue the development, integration and testing of CVBIED technologies into the current Force Protection infrastructure to address capabilities gaps within JUONS CC-0540.			
FY 2021 Plans: Funding will support continued integration of CVBIED technologies into the current Force Protection infrastructure to address capabilities gaps with JUONS CC-0540.			
FY 2022 Plans: No Base RDT&E provided.			
FY 2021 to FY 2022 Increase/Decrease Statement: The increase was a fiscal inflation adjustment only factored against the FY21 requirement.			
Accomplishments/Planned Programs Subtotals	2.000	2.020	2.040

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Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense (Budget Activity 4)</i>	Project (Number/Name) DS4 / <i>Integrated Base Defense</i>

C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u> <u>Base</u>	<u>FY 2022</u> <u>OCO</u>	<u>FY 2022</u> <u>Total</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• M90115: <i>INTEG BASE DEF NONSTAND EQUIP (IBD NS-E) KITTING</i>	39.984	64.584	48.057	-	48.057	-	-	-	-	-	-

Remarks

D. Acquisition Strategy

The IBD acquisition strategy is to leverage the efforts of existing IBD-related government organizations and related technologies in order to award multiple contracts in support of IBD objectives for the development of holistic IBD architectures and products while also ensuring interoperability with fielded and emerging IBD-related systems. JUONS CC-0540 (CVBIED) equipment is comprised of a combination of Commercial and Government Off the Shelf items integrated to meet the requirements of JUONS CC-0540 (CVBIED).

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2022 Army												Date: May 2021			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 4				PE 0604785A / Integrated Base Defense (B udget Activity 4)				DS4 / Integrated Base Defense							
Product Development (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
JUONS CC-0540 System Integration	MIPR	CCDC AvMC : Huntsville, AL	-	0.732	Jan 2020	0.329	Jan 2021	0.329	Jan 2022	-		0.329	0.000	1.390	-
JUONS CC-0540 Hyper spectral Sensor Development Support	MIPR	CCDC C5ISR NVESD : Fort Belvoir, VA	-	-		0.471	Jan 2021	0.471	Feb 2022	-		0.471	0.000	0.942	-
JUONS CC-0540 Wide Area Motion Imagery Sensor Development	MIPR	NAVAIR : Patuxent River, MD	-	0.390	Jan 2020	0.450	Jan 2021	0.450	Mar 2022	-		0.450	0.000	1.290	-
Integrated System Architecture (ISA) SW Development Support	MIPR	CCDC C5ISR NVESD : Fort Belvoir	-	0.225		0.270	Jan 2021	0.270	Mar 2022	-		0.270	0.000	0.765	-
Subtotal			-	1.347		1.520		1.520		-		1.520	0.000	4.387	N/A
Support (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Program Management Support	C/CPFF	PM TS : Fort Belvoir	-	0.055		-		-		-		-	0.000	0.055	-
Subtotal			-	0.055		-		-		-		-	0.000	0.055	N/A
Test and Evaluation (\$ in Millions)				FY 2020		FY 2021		FY 2022 Base		FY 2022 OCO		FY 2022 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To Complete	Total Cost	Target Value of Contract
Test and Evaluation	MIPR	ATEC : Aberdeen Proving Ground, MD	-	0.598	Jan 2020	0.500	Oct 2020	0.520	Oct 2021	-		0.520	0.000	1.618	-
Subtotal			-	0.598		0.500		0.520		-		0.520	0.000	1.618	N/A

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Exhibit R-4A, RDT&E Schedule Details: PB 2022 Army		Date: May 2021
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Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development, Test and Integration	4	2019	4	2022
Integration Test Events	4	2019	4	2022
Video Analytics/Computer Learning Integration	4	2019	4	2021
Fixed Control Station Integration	1	2020	4	2022
Facial Recognition/ RFID implementation	4	2020	3	2021
Intelligent Remote Imaging Spectrometer- Ground and Kestrel Block II Phase I	1	2020	4	2020
Intelligent Remote Imaging Spectrometer- Ground and Kestrel Block II Phase II	1	2021	3	2021
Intelligent Remote Imaging Spectrometer - Ground and Kestrel Block II Phase III	4	2021	3	2022
GECO - NIDS Phase I	2	2021	4	2021
GECO - NIDS Phase II	1	2022	3	2022
ATEC Capabilities and Limitations- Increment 1	3	2020	4	2020
ATEC Capabilities and Limitations - Increment 2	2	2021	3	2021
ATEC Capabilities and Limitations - Increment 3	2	2022	3	2022