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Exhibit R-2, RDT&E Budget Item Justification: PB 2023 Army **Date:** April 2022

Appropriation/Budget Activity					R-1 Program Element (Number/Name)							
2040: <i>Research, Development, Test & Evaluation, Army / BA 4: Advanced Component Development & Prototypes (ACD&P)</i>					PE 0604785A / <i>Integrated Base Defense (Budget Activity 4)</i>							
COST (\$ in Millions)	Prior Years	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
Total Program Element	-	2.020	2.040	-	-	-	0.000	0.000	0.000	0.000	0.000	4.060
DS4: <i>Integrated Base Defense</i>	-	2.020	2.040	-	-	-	-	-	-	-	0.000	4.060

Note

PE 0604785A / Integrated Base Defense is an FY23 termination. No further RDTE requirements are anticipated in FY23 and beyond.

A. Mission Description and Budget Item Justification

0604785A/DS4/Integrated Base Defense (IBD) has no FY2023 funding request

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)	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total
Previous President's Budget	2.020	2.040	0.000	-	0.000
Current President's Budget	2.020	2.040	0.000	-	0.000
Total Adjustments	0.000	0.000	0.000	-	0.000
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-	-			

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army **Date:** April 2022

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 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
DS4: <i>Integrated Base Defense</i>	-	2.020	2.040	-	-	-	-	-	-	-	0.000	4.060
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 Force 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. Accomplishments/Planned Programs (\$ in Millions)

	FY 2021	FY 2022	FY 2023
Title: CVBIED Design and Build	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 2022 Plans: No Base RDT&E provided.			
FY 2022 to FY 2023 Increase/Decrease Statement: CVBIED will not require RDTE funding in FY23 and beyond; no further requirements are anticipated.			
Accomplishments/Planned Programs Subtotals	2.020	2.040	-

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

Line Item	FY 2021	FY 2022	FY 2023 Base	FY 2023 OCO	FY 2023 Total	FY 2024	FY 2025	FY 2026	FY 2027	Cost To Complete	Total Cost
• M90115: <i>INTEG BASE DEF NONSTAND EQUIP (IBD NS-E) KITTING</i>	47.184	-	0.000	-	0.000	-	-	-	-	0.000	47.184

Remarks

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Exhibit R-2A, RDT&E Project Justification: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604785A / Integrated Base Defense (Budget Activity 4)	Project (Number/Name) DS4 / Integrated Base Defense

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 2023 Army **Date:** April 2022

Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense (B</i> <i>udget Activity 4)</i>	Project (Number/Name) DS4 / <i>Integrated Base Defense</i>
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Product Development (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
JUONS CC-0540 System Integration	MIPR	CCDC AvMC : Huntsville, AL	0.732	0.329	Jan 2021	0.329	Jan 2022	-		-		-	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	-		-		-	0.000	0.942	-
JUONS CC-0540 Wide Area Motion Imagery Sensor Development	MIPR	NAVAIR : Patuxent River, MD	0.390	0.450	Jan 2021	0.450	Mar 2022	-		-		-	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	-		-		-	0.000	0.765	-
Subtotal			1.347	1.520		1.520		-		-		-	0.000	4.387	N/A

Support (\$ in Millions)				FY 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
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 2021		FY 2022		FY 2023 Base		FY 2023 OCO		FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost			
Test and Evaluation	MIPR	A TEC - RTC : Redstone Arsenal, Huntsville, AL	0.598	0.500	Oct 2020	0.520	Oct 2021	-		-		-	0.000	1.618	-
Subtotal			0.598	0.500		0.520		-		-		-	0.000	1.618	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2023 Army								Date: April 2022			
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>				
	Prior Years	FY 2021	FY 2022		FY 2023 Base	FY 2023 OCO	FY 2023 Total	Cost To Complete	Total Cost	Target Value of Contract	
Project Cost Totals	2.000	2.020	2.040		-	-	-	0.000	6.060	N/A	

Remarks
CVBIED will not require RDTE funding in FY23; no further requirements.

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Exhibit R-4, RDT&E Schedule Profile: PB 2023 Army		Date: April 2022
Appropriation/Budget Activity 2040 / 4	R-1 Program Element (Number/Name) PE 0604785A / <i>Integrated Base Defense (B</i> <i>udget Activity 4)</i>	Project (Number/Name) DS4 / <i>Integrated Base Defense</i>

Event Name	FY 2021				FY 2022				FY 2023				FY 2024				FY 2025				FY 2026				FY 2027			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Development, Test and Integration	[Redacted]																											
System Development and Component Integration	[Redacted]																											
AVIS Integration	[Redacted]																											
AVIS Integration	[Redacted]																											
Video Analytics/Computer Learning Integration	[Redacted]																											
Computer Learning Integration	[Redacted]																											
Fixed Control Station Integration	[Redacted]																											
FCS Integration	[Redacted]																											
Facial Recognition/ RFID implementation	[Redacted]																											
Facial Rec/RFID Marking	[Redacted]																											
Intelligent Remote Imaging Spectrometer- Ground and Kestrel B	[Redacted]																											
IRIS-G and KB2 Integration Phase II	[Redacted]																											
Intelligent Remote Imaging Spectrometer - Ground and Kestrel B	[Redacted]																											
Block II Phase III	[Redacted]																											
IRIS-G and KB2 Integration Phase III	[Redacted]																											
ATEC Capabilities and Limitations - Increment 2	[Redacted]																											
Assessment 2	[Redacted]																											
System of Systems Integration	[Redacted]																											
SoS Integration	[Redacted]																											
SoS Integration Event 1	[Redacted]																											
I.E. 1	[Redacted]																											
SoS Integration Event 2	[Redacted]																											
I.E. 2	[Redacted]																											
SoS Integration Event 3	[Redacted]																											
I.E. 3	[Redacted]																											
ATEC Capabilities and Limitations - Increment 3	[Redacted]																											
Assessment 3	[Redacted]																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2023 Army		Date: April 2022
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>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Development, Test and Integration	4	2019	4	2022
AVIS Integration	4	2019	4	2022
Video Analytics/Computer Learning Integration	4	2019	2	2022
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
ATEC Capabilities and Limitations- Increment 1	3	2020	4	2020
ATEC Capabilities and Limitations - Increment 2	2	2021	3	2021
System of Systems Integration	3	2021	4	2022
SoS Integration Event 1	1	2022	1	2022
SoS Integration Event 2	2	2022	2	2022
SoS Integration Event 3	4	2022	4	2022
ATEC Capabilities and Limitations - Increment 3	4	2022	4	2022