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Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Army										Date: March 2019		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0205402A I Integrated Base Defense - Operational System Dev							
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	0.000	8.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.000
EF2: Integrated Base Defense	-	0.000	8.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.000

Note

Beginning in FY 2017 Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E) funding is under PE0605033A Project EQ3. Beginning in FY 2017 Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) funding is under PE0605029A Project EQ2.

Beginning in FY 2020 Integrated Base Defense (IBD) and Counter Vehicle Borne Improvised Explosive Device (CVBIED) efforts are funded under PE0604785A Project DS4.

A. Mission Description and Budget Item Justification

Integrated Base Defense (IBD): The purpose of IBD Kitting is to harvest and refurbish physical security and Force Protection (FP) Non-Standard Equipment (NS-E) and package them into integrated and interoperable IBD Capabilities. IBD provides integration of software and analytical capability to support the integration of systems in the field. 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 (IUBIP) framework. In support of JUONS 0540 to address the Vehicle Borne Improvised Explosive Device (VBIED) threat. Additional capabilities are being developed and integrated to the current Force Protection structure.

Justification: There is no FY 2020 PB Request.

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.000	8.000	0.000	-	0.000
Current President's Budget	0.000	8.000	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 2020 Army										Date: March 2019		
Appropriation/Budget Activity 2040 / 7					R-1 Program Element (Number/Name) PE 0205402A / Integrated Base Defense - Operational System Dev				Project (Number/Name) EF2 / Integrated Base Defense			
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
EF2: Integrated Base Defense	-	0.000	8.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	8.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

Note

Beginning in FY 2017 Ground-Based Operational Surveillance System - Expeditionary (GBOSS-E) funding is under PE0605033A Project EQ3. Beginning in FY 2017 Integrated Ground Security, Surveillance and Response Capability (IGSSR-C) funding is under PE0605029A Project EQ2.

Beginning in FY 2020 Integrated Base Defense (IBD) / Counter Vehicle Borne Improvised Explosive Device (CVBIED) program funding is under PE0604785A Project DS4.

A. Mission Description and Budget Item Justification

Integrated Base Defense (IBD): The purpose of IBD is to harvest and refurbish physical security and FP Non-Standard Equipment and package them into integrated and interoperable IBD Capabilities. IBD provides integration of software and analytical capability to support the integration of systems in the field. 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. Additionally, IBD is being updated in response to JUONS 0540 to address the Vehicle Borne Improvised Explosive Device (VBIED) threat. These capabilities are being developed and integrated into the current Force Protection infrastructure.

FY 2020: No funding requested.

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

	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Title: IBD JUONS 0540	-	8.000	-	-	-
Description: This funding supports JUONS 0540. This funding is OCO.					
FY 2019 Plans: FY 2019 OCO PB Request in the amount of \$8.000 million supports JUONS 0540 to perform system and sensor improvements to counter the Vehicle Borne Improvised Explosive Device (VBIED) threat.					
FY 2019 to FY 2020 Increase/Decrease Statement: Funds for FY20-24 are budgeted in PE 644785 Project DS4.					
Accomplishments/Planned Programs Subtotals	-	8.000	-	-	-

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Appropriation/Budget Activity 2040 / 7				R-1 Program Element (Number/Name) PE 0205402A / Integrated Base Defense - Operational System Dev				Project (Number/Name) EF2 / Integrated Base Defense			
C. Other Program Funding Summary (\$ in Millions)											
			<u>FY 2020</u>	<u>FY 2020</u>	<u>FY 2020</u>					<u>Cost To</u>	
<u>Line Item</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>Base</u>	<u>OCO</u>	<u>Total</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>Complete</u>	<u>Total Cost</u>
• M90115: INTEG BASE DEF NONSTAND EQUIP (IBD NS-E) KITTING	25.926	39.200	0.000	47.110	47.110	47.581	24.028	24.028	24.509	0.000	232.382
Remarks											
D. Acquisition Strategy											
The IBD acquisition strategy is to leverage existing IBD-related government organizations and to competitively award multiple contracts in support of IBD objectives for the development of holistic IBD architectures and products to support interoperability of fielded and emerging IBD-related systems.											
E. Performance Metrics											
N/A											

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2020 Army												Date: March 2019			
Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0205402A / Integrated Base Defense - Operational System Dev				Project (Number/Name) EF2 / Integrated Base Defense					
Management Services (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
G-BOSS(E) Project Management	MIPR	PM EOIR : Fort Belvoir, VA	0.288	-		-		-		-		-	0.000	0.288	-
IGSSR-C Project Management	MIPR	PM EOIR : Fort Belvoir, VA	0.175	-		-		-		-		-	0.000	0.175	-
IBD Engineering and Management Services	Allot	Joint Project Manager Guardian Joint Product Manager Force Protection Services : Fort Belvoir, VA	0.630	-		-		-		-		-	0.000	0.630	-
JUONS 0540 PMO	TBD	PdM FPS : Fort Belvoir, VA	-	-		0.460	Dec 2018	-		-		-	0.000	0.460	-
Subtotal			1.093	-		0.460		-		-		-	0.000	1.553	N/A
Product Development (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
G-BOSS(E) Design	MIPR	NSWC Crane : Crane, IN	1.985	-		-		-		-		-	0.000	1.985	-
G-BOSS(E) Prototypes	MIPR	RDECOM CERDEC : Fort Belvoir, VA	2.733	-		-		-		-		-	0.000	2.733	-
IGSSR-C Design	C/CPFF	TBD : TBD	2.653	-		-		-		-		-	0.000	2.653	-
IBD Achritecture and Software Development	C/CR	AMRDEC : Huntsville, AL	4.985	-		-		-		-		-	0.000	4.985	-
IBD Design and Build	C/CR	AMRDEC : Huntsville, AL	0.750	-		-		-		-		-	0.000	0.750	-
JUONS 0540 integration	C/CR	AMRDEC : Huntsville, AL	-	-		4.040	Jan 2019	-		-		-	0.000	4.040	-
Subtotal			13.106	-		4.040		-		-		-	0.000	17.146	N/A

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Appropriation/Budget Activity 2040 / 7						R-1 Program Element (Number/Name) PE 0205402A / Integrated Base Defense - Operational System Dev						Project (Number/Name) EF2 / Integrated Base Defense			
Support (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
G-BOSS(E) Design Support	MIPR	RDECOM CERDEC : Fort Belvoir, VA	0.502	-		-		-		-		-	0.000	0.502	-
IGSSR-C Design Support	MIPR	RDECOM CERDEC : Fort Belvoir, VA	0.547	-		-		-		-		-	0.000	0.547	-
JUONS 0540 Support	MIPR	NVESD/ARL : Fort Belvoir, VA	-	-		0.500	Feb 2019	-		-		-	0.000	0.500	-
Subtotal			1.049	-		0.500		-		-		-	0.000	1.549	N/A
Test and Evaluation (\$ in Millions)				FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 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
IBD Test and Evaluation	MIPR	ATEC : Aberdeen Proving Ground, MD	2.722	-		-		-		-		-	0.000	2.722	-
JUONS 0540 Test and Evaluation	MIPR	ATEC : Aberdeen Proving Ground, MD	-	-		3.000	May 2019	-		-		-	0.000	3.000	-
Subtotal			2.722	-		3.000		-		-		-	0.000	5.722	N/A
			Prior Years	FY 2018		FY 2019		FY 2020 Base		FY 2020 OCO		FY 2020 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals			17.970	-		8.000		-		-		-	0.000	25.970	N/A
Remarks															

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PE 0205402A: *Integrated Base Defense - Operational Sy...*
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R-1 Line #232

R-1 Program Element (Number/Name)
PE 0205402A / *Integrated Base Defense - Operational System Dev*

Project (Number/Name)
EF2 / *Integrated Base Defense*

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Exhibit R-4A, RDT&E Schedule Details: PB 2020 Army			Date: March 2019
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0205402A / <i>Integrated Base Defense - Operational System Dev</i>	Project (Number/Name) EF2 / <i>Integrated Base Defense</i>	

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
IBD CONOPS & Architecture	2	2016	1	2017
IBD Development Integration and Testing	3	2017	1	2018
IBD JUONS 540 Integration	1	2017	3	2019
IBD JUONS 540 ATEC Testing	1	2019	4	2019