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Exhibit R-2, RDT&E Budget Item Justification: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)	R-1 Program Element (Number/Name) PE 0604713A / Combat Feeding, Clothing, and Equipment
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	-	4.393	7.393	2.814	-	2.814	1.815	1.530	1.610	1.610	0.000	21.165
548: Mil Subsistence Sys	-	1.092	7.393	2.814	-	2.814	1.815	1.530	1.610	1.610	0.000	17.864
EL2: Army Field Feeding Equipment	-	3.301	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	3.301

A. Mission Description and Budget Item Justification

Projects under this Program Element support the development, demonstration and Non-Developmental Item (NDI) Commercial Off The Shelf (COTS) evaluation of combat feeding equipment to enhance soldier efficiency, improve soldier survivability, and reduce food service logistics requirements for all four services. These Projects support multi-fuel, rapidly deployable field food service equipment initiatives. Efforts also support the Engineering and Manufacturing Development (EMD) phase of programs to improve equipment, enhance safety in food service, and decrease fuel and water requirements. The Projects develop critical enablers that support the Joint Future Capabilities and Joint Expeditionary mindset, by maintaining readiness through integrating new equipment, enhancing the field soldier's well-being, and providing soldiers usable equipment. The Projects also reduce sustainment requirements, related Combat Support/Combat Service Support (CS/CSS) demands on lift, the combat zone footprint, and costs for logistical support.

This PE/Project supports Field Feeding programs for all the services.

B. Program Change Summary (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Previous President's Budget	4.502	2.393	2.817	-	2.817
Current President's Budget	4.393	7.393	2.814	-	2.814
Total Adjustments	-0.109	5.000	-0.003	-	-0.003
• Congressional General Reductions	-	-	-	-	-
• Congressional Directed Reductions	-	-	-	-	-
• Congressional Rescissions	-	-	-	-	-
• Congressional Adds	-	5.000	-	-	-
• Congressional Directed Transfers	-	-	-	-	-
• Reprogrammings	-0.109	-	-	-	-
• SBIR/STTR Transfer	-	-	-	-	-
• Adjustments to Budget Years	-	-	-0.003	-	-0.003

Congressional Add Details (\$ in Millions, and Includes General Reductions)

Project: 548: Mil Subsistence Sys

FY 2019	FY 2020

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Appropriation/Budget Activity 2040: <i>Research, Development, Test & Evaluation, Army / BA 5: System Development & Demonstration (SDD)</i>	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>
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Congressional Add Details (\$ in Millions, and Includes General Reductions)

Congressional Add: *Containerized Ice Making System (Congressional Add)*

	FY 2019	FY 2020
Congressional Add Subtotals for Project: 548	-	4.964
Congressional Add Totals for all Projects	-	4.964

Change Summary Explanation

FY2020 Increase supports Project 548 Congressional Interest Item.

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	Project (Number/Name) 548 / <i>Mil Subsistence Sys</i>
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
548: <i>Mil Subsistence Sys</i>	-	1.092	7.393	2.814	-	2.814	1.815	1.530	1.610	1.610	0.000	17.864
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project enables system development and demonstration of Joint Service combat rations and field feeding equipment/systems designed to improve warfighter performance and reduce the logistics burden of subsistence support. Efforts funded in this Project support all four Services, the Special Operations Command, and the Defense Logistics Agency (DLA). The Army serves as the Executive Agent for this Department of Defense (DoD) program, with oversight and coordination provided by the DoD Combat Feeding Research and Engineering Board (CFREB) as required by DoD Directive (DoDD) 3235.02E. Centralized execution of the DoD Combat Feeding Research and Engineering Program (CFREP) with Joint Service review and approval eliminates unnecessary duplication of efforts across the Services and maximizes use of common materiel solutions.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Joint Service Combat Ration System Development	0.630	1.357	1.704	-	1.704
<p>Description: This effort integrates and demonstrates mature Joint Service combat ration systems that enable warfighter maneuver, readiness and effectiveness during highly mobile, dispersed operations. Prototypes are transitioned from PE 0603747A Project 610 to develop individual and group combat rations with improved capabilities including improved warfighter physical and cognitive performance through optimized nutrition and reduced logistics burden through weight and cube reduction. This effort completes operational test and evaluation (OT&E) to confirm system level performance, and develops ration specifications for transition to Defense Logistics Agency - Troop Support (DLA - Troop Support) for procurement.</p> <p>FY 2020 Plans: For existing ration platforms (Meal, Ready-to-Eat; First Strike Ration; Meal, Cold Weather, Modular Operational Ration Enhancement; Unitized Group Rations ? A/M/H&S), will integrate prototype components/technologies into menu systems and ration assembly processes to improve quality, optimize nutritional content, decrease weight/cube/cost and/or improve modularity and field utility; will conduct OT&E on ration systems to validate system level performance; present recommendations to the Joint Services Operational Ration Forum (JSORF) for Milestone C approval; will finalize procurement documents and initiate transition to DLA-Troop Support; will obtain Surgeon General approval of revised menus; will execute production testing with industry to ensure consistent ration quality, validate Performance-based Contract Requirements (PCRs), and resolve vendor/supplier issues; will conduct confirmatory sensory, chemical, physical and shelf life testing. For developmental</p>					

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army			Date: February 2020		
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	Project (Number/Name) 548 / <i>Mil Subsistence Sys</i>			
B. Accomplishments/Planned Programs (\$ in Millions)					
	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
<p>FY 2020 Plans: Will conduct OT&E of Inflatable Refrigerated Space (IRefS) and Tray Ration Heater - Improved for USMC; will obtain aerial delivery certification for IRefS; will complete OT&E on Mobile Feeding Galley and transition technical data to USN; will continue OT&E of integrated mounting system for galley equipment to reduce operation and support costs in support of the USN; will develop reports, Engineering Change Proposals (ECPs) and logistical data to reduce overall fuel and water consumption in support of the USMC; will transition other validated prototype equipment and technical data to USN, USMC and USAF.</p> <p>FY 2021 Base Plans: Will conduct OT&E of Inflatable Refrigerated Space (IRefS) and complete aerial delivery certification; will complete OT&E of equipment production models with embedded sense and respond technology to track reliability, maintenance, and current health of equipment assets; will develop reports, Engineering Change Proposals (ECPs) and logistical data to reduce overall fuel and water consumption in support of the USMC; and will transition validated prototype equipment and technical data to USN, USMC and USAF.</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding increased to support OT&E for Joint Services.</p>					
<p>Title: FY 2018 NDAA SEC 825 MDAP Cost Overrun Description: FY 2018 NDAA SEC 825 MDAP Cost Overrun</p>	0.002	-	-	-	-
<p>Title: FY 2020 SBIR/STTR Transfer Description: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 Plans: Funding transferred in accordance with Title 15 USC ?638</p> <p>FY 2020 to FY 2021 Increase/Decrease Statement: Funding transferred in accordance with Title 15 USC ?638</p>	-	0.108	-	-	-
Accomplishments/Planned Programs Subtotals	1.092	2.429	2.814	-	2.814
	FY 2019	FY 2020			
Congressional Add: Containerized Ice Making System (Congressional Add)	-	4.964			

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	Project (Number/Name) 548 / <i>Mil Subsistence Sys</i>

	FY 2019	FY 2020
FY 2020 Plans: Containerized Ice Making System (Congressional Add)		
Congressional Adds Subtotals	-	4.964

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

<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u> <u>Base</u>	<u>FY 2021</u> <u>OCO</u>	<u>FY 2021</u> <u>Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• 610: <i>Food Adv Development</i>	4.425	3.721	3.055	-	3.055	3.172	3.968	4.129	4.129	0.000	26.599

Remarks

D. Acquisition Strategy

Complete Engineering and Manufacturing Development (EMD) and Demonstration of food items and equipment for transition into competitive procurement contract. Complete advanced research efforts to support Engineering Change Proposals for previously developed equipment.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army												Date: February 2020			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)					Project (Number/Name)						
2040 / 5				PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>					548 / <i>Mil Subsistence Sys</i>						
Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Combat Feeding Program Management	C/FP	CCDC Soldier Center : Natick, MA	3.141	0.235	Oct 2018	0.487	Oct 2019	0.607	Oct 2020	-		0.607	Continuing	Continuing	Continuing
FY 2018 NDAA SEC 825 MDAP Cost Overrun	TBD	N/A : N/A	-	0.002		-		-		-		-	0.000	0.002	-
FY 2020 SBIR/STTR Transfer	TBD	Various : Various	-	-		0.108		-		-		-	0.000	0.108	-
Subtotal			3.141	0.237		0.595		0.607		-		0.607	Continuing	Continuing	N/A
Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Joint Service Rations and Combat Feeding Equipment	Various	Various : Various	5.958	0.696	Oct 2018	0.177	Oct 2019	0.240	Oct 2020	-		0.240	Continuing	Continuing	Continuing
Subtotal			5.958	0.696		0.177		0.240		-		0.240	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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
Joint Service Rations and Combat Feeding Equipment	Allot	CCDC Soldier Center : Natick, MA	0.291	0.159	Oct 2018	1.648	Oct 2019	1.967	Oct 2020	-		1.967	Continuing	Continuing	Continuing
Containerized Ice Making System (Congressional Add)	TBD	TBD : TBD	-	-		4.973	Mar 2020	-		-		-	0.000	4.973	-
Subtotal			0.291	0.159		6.621		1.967		-		1.967	Continuing	Continuing	N/A

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army								Date: February 2020			
Appropriation/Budget Activity 2040 / 5				R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>				Project (Number/Name) 548 / <i>Mil Subsistence Sys</i>			
	Prior Years	FY 2019		FY 2020		FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	9.390	1.092		7.393		2.814	-	2.814	Continuing	Continuing	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	Project (Number/Name) 548 / <i>Mil Subsistence Sys</i>

Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
Conduct operational testing of combat ration systems	[Blue bar]																											
Conduct OT&E of Close Combat Assault Ration (CCAR)	[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Obtain Joint Service and Army Surgeon General approval of first generation CCAR	[Grey]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Develop CCAR Technical Data Package and contract for Low Rate Initial Production	[Grey]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Develop and transition CCAR documents to DLA-TS for procurement	[Grey]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Conduct OT&E of Expeditionary Group Ration (EGR)	[Grey]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Develop and transition individual and group ration documents a	[Blue bar]																											
Refine heat recovery prototype for integration and conduct OT&E	[Blue bar]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Develop and transition TDP for the EMS, JSERCS, and heat recovery system to	[Blue bar]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Conduct OT&E of BEAR Type II kitchen system and transition to	[Blue bar]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Conduct OT&E of Energy Conversation technologies for BEAR kitchens to USAF	[Blue bar]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Conduct land-based user evaluation of MIKS and transition data to USN	[Blue bar]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			
Conduct OT&E and transition Mobile Feeding Galley to USN	[Blue bar]				[Grey]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]				[Blue bar]			

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army			Date: February 2020
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Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
Conduct OT&E & transition labor & energy saving galley/scullery upgrades to USN																												
Conduct OT&E of expeditionary kitchen systems for shore-based Navy units																												
Conduct OT&E of Improved Tray Ration Heater and transition to USMC																												
Obtain Aerial Delivery Certification of Inflatable Refrigerated Space (IReFS)																												
Conduct OT&E of EFK upgrades and transition to USMC																												
Conduct OT&E of intuitive kitchen equipment and transition to Services																												

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	Project (Number/Name) 548 / <i>Mil Subsistence Sys</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Conduct operational testing of combat ration systems	1	2018	4	2025
Conduct OT&E of Close Combat Assault Ration (CCAR)	1	2020	4	2021
Obtain Joint Service and Army Surgeon General approval of first generation CCAR	1	2021	4	2021
Develop CCAR Technical Data Package and contract for Low Rate Initial Production	2	2021	4	2021
Develop and transition CCAR documents to DLA-TS for procurement	1	2022	2	2022
Conduct OT&E of Expeditionary Group Ration (EGR)	1	2023	4	2023
Develop and transition individual and group ration documents annually to DLA-TS	1	2018	4	2025
Refine heat recovery prototype for integration and conduct OT&E.	1	2018	3	2019
Develop and transition TDP for the EMS, JSERCS, and heat recovery system to USAF	3	2019	4	2019
Conduct OT&E of BEAR Type II kitchen system and transition to USAF	3	2018	4	2019
Conduct OT&E of Energy Conversation technologies for BEAR kitchens to USAF	1	2023	4	2024
Conduct land-based user evaluation of MIKS and transition data to USN	2	2019	4	2019
Conduct OT&E and transition Mobile Feeding Galley to USN	1	2020	3	2020
Conduct OT&E & transition labor & energy saving galley/scullery upgrades to USN	1	2020	4	2021
Conduct OT&E of expeditionary kitchen systems for shore-based Navy units	1	2022	4	2022
Conduct OT&E of Improved Tray Ration Heater and transition to USMC	1	2020	4	2021
Obtain Aerial Delivery Certification of Inflatable Refrigerated Space (IRefS)	1	2020	4	2021
Conduct OT&E of EFK upgrades and transition to USMC	1	2024	4	2024
Conduct OT&E of intuitive kitchen equipment and transition to Services	1	2021	4	2021

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Exhibit R-2A, RDT&E Project Justification: PB 2021 Army										Date: February 2020		
Appropriation/Budget Activity 2040 / 5					R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>			Project (Number/Name) EL2 / <i>Army Field Feeding Equipment</i>				
COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
EL2: <i>Army Field Feeding Equipment</i>	-	3.301	0.000	0.000	-	0.000	0.000	0.000	0.000	0.000	0.000	3.301
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project supports the development, demonstration and Non-Developmental Item (NDI) Commercial Off The Shelf (COTS) evaluation of combat feeding equipment to enhance Soldier efficiency, improve Soldier survivability, and reduce food service logistics requirements for the Army. The Project supports multi-fuel, rapidly deployable field food service equipment initiatives. Efforts also support the Engineering and Manufacturing Development (EMD) phase of programs to improve equipment, enhance safety in food service, and decrease fuel and water requirements. The Projects develop critical enablers that support the Army's Strategic Planning Guidance by developing and integrating critical expeditionary capabilities that maintain readiness, providing effective solutions that reduce the resource and operational energy footprint, providing modernized equipment, and enhancing the field Soldier's well being. This project reduces sustainment requirements, related Combat Support/ Combat Service Support (CS/CSS) demands on lift, the combat zone footprint, and costs for logistical support.

This PE/Project supports Field Feeding programs for the Army.

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

	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Title: Battlefield Kitchen (BK)	1.483	-	-	-	-
Description: Develop replacement of the obsolete Mobile Kitchen Trailer (MKT) system. The BK is designed to replace the MKT with a kitchen that provides fuel efficient, thermally controlled, closed combustion appliances within an environmentally controlled workspace. The BK shall provide rations for up to 300 Soldiers within 4 hours of setup. The BK provides refrigeration, running water and a heated serving line using the same off-road prime mover as the MKT as well as transportability by rail, sea, fixed and rotary wing aircraft.					
Title: Expeditionary Solid Waste Disposal System (ESWDS)	0.789	-	-	-	-
Description: Provides an integrated waste disposal capability providing substantial improvement over open air burn pits that pose health risks to Soldiers and/or the logistics burden of backhauling trash. Will safely process 1,000 pounds per day of mixed solid waste. Two systems can be used together to double capacity.					
Title: Containerized Kitchen, Modular	1.029	-	-	-	-

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B. Accomplishments/Planned Programs (\$ in Millions)	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
Description: Integrate the Army's new Modular Appliance Burner and modular appliances into the Containerized Kitchen Platform. Replacing the open combustion appliances on the CK eliminates a key safety issue and the modular appliances are 20-40% more fuel efficient. Sharing the modular concept across all Army Field Feeding Platforms cuts the life cycle support costs significantly.					
Accomplishments/Planned Programs Subtotals	3.301	-	-	-	-

C. Other Program Funding Summary (\$ in Millions)												
<u>Line Item</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021 Base</u>	<u>FY 2021 OCO</u>	<u>FY 2021 Total</u>	<u>FY 2022</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>Cost To Complete</u>	<u>Total Cost</u>	
• EL1: <i>Army Field Feeding Programs</i>	1.303	-	0.000	-	0.000	-	-	-	-	-	Continuing	Continuing
• R62830: <i>Battlefield Kitchen (BK)</i>	2.024	-	0.000	-	0.000	-	-	-	-	-	Continuing	Continuing
• M65801: <i>REFRIGERATED CONTAINER SYSTEMS</i>	9.140	14.300	0.000	2.279	2.279	-	-	-	-	-	Continuing	Continuing

Remarks

D. Acquisition Strategy

Complete Engineering Manufacturing Decisions (EMD) of food service items and equipment for transition into competitive procurement contract. Complete advanced research efforts to support Engineer Change Proposals for previously developed equipment.

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2021 Army **Date:** February 2020

Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	Project (Number/Name) EL2 / <i>Army Field Feeding Equipment</i>
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Management Services (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Project Management Support	Various	PMFSS : Natick, MA	0.490	1.425	Jul 2019	-		-		-		-	0.000	1.915	-
Subtotal			0.490	1.425		-		-		-		-	0.000	1.915	N/A

Product Development (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Battlefield Kitchen	Various	PMFSS : Natick, MA	2.201	0.752	Jul 2019	-		-		-		-	0.000	2.953	-
Containerized Kitchen, Modular	Various	PMFSS : Natick, MA	-	0.350	Jul 2019	-		-		-		-	0.000	0.350	-
Eexpeditionary Solid Waste Disposal System	Various	Various : Various	-	0.424	Feb 2019	-		-		-		-	0.000	0.424	-
Subtotal			2.201	1.526		-		-		-		-	0.000	3.727	N/A

Test and Evaluation (\$ in Millions)				FY 2019		FY 2020		FY 2021 Base		FY 2021 OCO		FY 2021 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			
Ice Making System	Various	ATC/Ft Lee : Virginia	0.205	-		-		-		-		-	0.000	0.205	-
Battlefield Kitchen	Various	ATC/FT Lee : Virginia	6.552	0.350	Jul 2019	-		-		-		-	0.000	6.902	-
Subtotal			6.757	0.350		-		-		-		-	0.000	7.107	N/A

	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals		9.448	3.301	0.000	-	-	0.000	12.749	N/A

Remarks

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Exhibit R-4, RDT&E Schedule Profile: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	Project (Number/Name) EL2 / <i>Army Field Feeding Equipment</i>

Event Name	FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
	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
Conduct Limited User Testing on the Battlefield Kitchen			▲ 1																									
Prepare procurement package for use CCKK development	■																											
Award development contract for CCKK development			▲ 5																									
Develop testable system prototypes for CCKK					■																							
Conduct ESWDS user test and Log Demo			▲ 2																									
Award delivery order for ESWDS required improvements			▲ 3																									
Complete ESWDS hardware improvements					■																							
Draft production contract documentation for ESWDS					■																							
Award delivery order for BK improvements			▲ 4																									
Complete modified BK prototypes					■																							
Complete drafted technical manual for BK	■																											

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Exhibit R-4A, RDT&E Schedule Details: PB 2021 Army		Date: February 2020
Appropriation/Budget Activity 2040 / 5	R-1 Program Element (Number/Name) PE 0604713A / <i>Combat Feeding, Clothing, and Equipment</i>	Project (Number/Name) EL2 / <i>Army Field Feeding Equipment</i>

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Conduct Limited User Testing on the Battlefield Kitchen	3	2019	3	2019
Prepare procurement package for use CCKK development	1	2019	2	2019
Award development contract for CCKK development	4	2019	4	2019
Develop testable system prototypes for CCKK	4	2019	3	2020
Conduct ESWDS user test and Log Demo	3	2019	3	2019
Award delivery order for ESWDS required improvements	3	2019	3	2019
Complete ESWDS hardware improvements	3	2019	4	2019
Draft production contract documentation for ESWDS	3	2019	2	2020
Award delivery order for BK improvements	3	2019	3	2019
Complete modified BK prototypes	3	2019	1	2020
Complete drafted technical manual for BK	1	2019	4	2020