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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2025 Army **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040: <i>Research, Development, Test &amp; Evaluation, Army / BA 7: Operational Systems Development</i>	<b>R-1 Program Element (Number/Name)</b> PE 0203743A / <i>155mm Self-Propelled Howitzer Improvements</i>
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
Total Program Element	-	112.257	122.902	55.205	-	55.205	111.517	68.246	69.006	69.696	0.000	608.829
FF9: <i>PIM Improvement Program</i>	-	112.257	122.902	55.205	-	55.205	111.517	68.246	69.006	69.696	0.000	608.829

**A. Mission Description and Budget Item Justification**

The Division Lethality Modernization effort improves self-propelled howitzer lethality through increased range and increased rate of fire, using mature technology to improve mobility, survivability, reliability, supportability, and lethality. This effort will analyze and evaluate new cannon technology, including existing and future artillery systems as well as technology to increase rate of fire and enable future platform autonomy. This effort will also develop requirements, release request for vendor proposals and evaluate vendor offerings. Funding also supports work being completed at the Watervliet Arsenal (WVA) in Watervliet, NY.

**B. Program Change Summary (\$ in Millions)**

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025 Base</u>	<u>FY 2025 OCO</u>	<u>FY 2025 Total</u>
Previous President's Budget	116.510	122.902	149.968	-	149.968
Current President's Budget	112.257	122.902	55.205	-	55.205
Total Adjustments	-4.253	0.000	-94.763	-	-94.763
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-4.253	-			
• Adjustments to Budget Years	-	-	-94.763	-	-94.763

**Change Summary Explanation**

Request decreased as a result of technical maturity issues requiring a pivot in acquisition strategy removing the developmental testing and user operational assessment in FY25.

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**Exhibit R-2A, RDT&E Project Justification:** PB 2025 Army **Date:** March 2024

<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0203743A / 155mm Self-Propelled Howitzer Improvements	<b>Project (Number/Name)</b> FF9 / PIM Improvement Program
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COST (\$ in Millions)	Prior Years	FY 2023	FY 2024	FY 2025 Base	FY 2025 OCO	FY 2025 Total	FY 2026	FY 2027	FY 2028	FY 2029	Cost To Complete	Total Cost
FF9: PIM Improvement Program	-	112.257	122.902	55.205	-	55.205	111.517	68.246	69.006	69.696	0.000	608.829
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

**A. Mission Description and Budget Item Justification**

The Division Lethality Modernization effort improves self-propelled howitzer lethality through increased range and increased rate of fire, using mature technology to improve mobility, survivability, reliability, supportability, and lethality. This effort will analyze and evaluate new cannon technology, including existing and future artillery systems as well as technology to increase rate of fire and enable future platform autonomy. This effort will also develop requirements, release request for vendor proposals and evaluate vendor offerings. Funding also supports work being completed at the Watervliet Arsenal (WVA) in Watervliet, NY.

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

	FY 2023	FY 2024	FY 2025
<p><b>Title:</b> ERCA Prototype Development and Build</p> <p><b>Description:</b> Funds support the development costs which include continuously improving the design and implementing changes to the prototypes as informed by testing and the operational assessment.</p> <p><b>FY 2024 Plans:</b> Continuation of developmental engineering efforts, ERCA prototype improvements, Milestone C documentation, First Unit Issued support activities, rate of fire preparation, and transition to Milestone C.</p> <p><b>FY 2025 Plans:</b> Continuation of developmental engineering efforts.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Decrease due to the ramp down of developmental activities.</p>	75.683	76.563	2.272
<p><b>Title:</b> Program Management</p> <p><b>Description:</b> Funding is provided for all Program Management efforts.</p> <p><b>FY 2024 Plans:</b> Continue the development and generate all required documents, office staff and engineering IPT development for Range and Rate of Fire efforts.</p> <p><b>FY 2025 Plans:</b> Continue development and generate all required documents, office staff and engineering IPT development.</p> <p><b>FY 2024 to FY 2025 Increase/Decrease Statement:</b></p>	13.152	13.861	9.763

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2025 Army		<b>Date:</b> March 2024		
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0203743A / 155mm Self-Propelled Howitzer Improvements	<b>Project (Number/Name)</b> FF9 / PIM Improvement Program		
<b>B. Accomplishments/Planned Programs (\$ in Millions)</b>		<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>
Decrease due to the ramp down of development activities.				
<b>Title:</b> Test and Evaluation		23.422	32.478	43.170
<b>Description:</b> This funding supports all Testing and Evaluation in support of the Division Lethality Modernization.				
<b>FY 2024 Plans:</b> Conduct Developmental Testing in support of Root Cause Corrective Action (RCCA) validation efforts. These events include all test execution, data collection, contractor and logistics support for safety, mobility, reliability and firings tests.				
<b>FY 2025 Plans:</b> Supports test site personnel, facilities, and ammunition required to conduct competitive vehicle evaluation.				
<b>FY 2024 to FY 2025 Increase/Decrease Statement:</b> Increase due to the vehicle evaluation effort.				
<b>Accomplishments/Planned Programs Subtotals</b>		112.257	122.902	55.205
<b>C. Other Program Funding Summary (\$ in Millions)</b>				
N/A				
<b>Remarks</b>				
<b>D. Acquisition Strategy</b>				
The Division Lethality Modernization effort will leverage an appropriate competitive contracting mechanism to test and evaluate mature and available vendor submissions for self-propelled howitzer technology to improve lethality of the U.S. Army's family of Self-Propelled Howitzer Systems.				

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Exhibit R-3, RDT&E Project Cost Analysis: PB 2025 Army												Date: March 2024			
Appropriation/Budget Activity				R-1 Program Element (Number/Name)				Project (Number/Name)							
2040 / 7				PE 0203743A / 155mm Self-Propelled Howitzer Improvements				FF9 / PIM Improvement Program							
Product Development (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
Developmental Eng	Various	Various : Various Locations	241.356	47.391	Jan 2023	42.275	Jan 2024	2.272	Jan 2025	-		2.272	Continuing	Continuing	Continuing
Prototype Build	Various	Various : Various Locations	166.700	28.292	Jan 2023	34.288		-		-		-	Continuing	Continuing	Continuing
<b>Subtotal</b>			408.056	75.683		76.563		2.272		-		2.272	Continuing	Continuing	N/A
Support (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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
PMO/PEO Support	MIPR	PM/PEO PIM : Various	36.867	13.152	Oct 2022	13.861	Oct 2023	9.763	Oct 2024	-		9.763	Continuing	Continuing	Continuing
<b>Subtotal</b>			36.867	13.152		13.861		9.763		-		9.763	Continuing	Continuing	N/A
Test and Evaluation (\$ in Millions)				FY 2023		FY 2024		FY 2025 Base		FY 2025 OCO		FY 2025 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	Various - OGAs : Various	137.644	23.422	Oct 2022	32.478	Oct 2023	43.170	Oct 2024	-		43.170	Continuing	Continuing	Continuing
<b>Subtotal</b>			137.644	23.422		32.478		43.170		-		43.170	Continuing	Continuing	N/A
<b>Project Cost Totals</b>			582.567	112.257		122.902		55.205		-		55.205	Continuing	Continuing	N/A
<b>Remarks</b>															

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<b>Exhibit R-4, RDT&amp;E Schedule Profile: PB 2025 Army</b>		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0203743A / 155mm Self-Propelled Howitzer Improvements	<b>Project (Number/Name)</b> FF9 / PIM Improvement Program

Event Name	FY 2023				FY 2024				FY 2025				FY 2026				FY 2027				FY 2028				FY 2029			
	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
Developmental Engineering																												
EMD Contract																												
Competitive Vehicle Evaluation																												
MTA Prototype Manufacturing																												
Developmental Testing																												
Milestone C																												
Prototype Manufacturing																												

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<b>Exhibit R-4A, RDT&amp;E Schedule Details:</b> PB 2025 Army		<b>Date:</b> March 2024
<b>Appropriation/Budget Activity</b> 2040 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0203743A / 155mm Self-Propelled Howitzer Improvements	<b>Project (Number/Name)</b> FF9 / PIM Improvement Program

Schedule Details

Events	Start		End	
	Quarter	Year	Quarter	Year
Developmental Engineering	2	2018	3	2028
EMD Contract	3	2026	3	2026
Competitive Vehicle Evaluation	3	2025	2	2026
MTA Prototype Manufacturing	4	2018	1	2024
Developmental Testing	1	2019	3	2028
Milestone C	3	2028	3	2028
Prototype Manufacturing	3	2026	1	2028