Exhibit R-2, RDT&E Budget Item Justification: PB 2016 Office of the Secretary Of Defense

R-1 Program Element (Number/Name)

Date: February 2015

Appropriation/Budget Activity

0400: Research, Development, Test & Evaluation, Defense-Wide I BA 4:

PE 0603923D8Z I Coalition Warfare

Advanced Component Development & Prototypes (ACD&P)

| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost |
|-------------------------|----------------|---------|---------|-----------------|----------------|------------------|---------|---------|---------|---------|---------------------|---------------|
| Total Program Element | 21.948 | 9.597 | 10.125 | 10.350 | - | 10.350 | 10.432 | 10.910 | 11.204 | 11.353 | Continuing | Continuing |
| P923: Coalition Warfare | 21.948 | 9.597 | 10.125 | 10.350 | - | 10.350 | 10.432 | 10.910 | 11.204 | 11.353 | Continuing | Continuing |

A. Mission Description and Budget Item Justification

Current U.S. military strategy and the global security environment make coalition warfare and multinational operations fundamental features of the U.S. national security strategy. Coalitions provide a broad base of technological, operational, and logistical support for military operations and ease the U.S. financial and manpower burdens associated with meeting military goals and objectives. U.S. strategic guidance confirms that coalitions and relationships with international partners are high priorities for the nation and the Department of Defense.

The Coalition Warfare Program (CWP) responds to this guidance by supporting DoD organizations that: 1) work with foreign partners to collaboratively address strategic technology gaps for current and future missions; 2) develop interoperability solutions for coalition operations; and 3) develop and strengthen defense relationships. CWP is the only Office of the Secretary of Defense (OSD) program with this mission. CWP supplements a U.S. Government proponent's funding for cooperative efforts, ensuring U.S. funds are sufficient to complete the engagement with the foreign partner(s). When CWP funds are used to help fund a cooperative project, that project leverages technical and financial contributions of the foreign partner(s) and speeds up the development and delivery of technical solutions to the warfighter. In its fourteen-year history, CWP has leveraged \$4 of foreign partner funding and \$3 of other U.S. Government funding for every \$1 CWP has invested in cooperative projects.

CWP funding enables DoD project teams to move a technology into the next stage of development or to complete and transition a technology to operational forces. These projects may also form the basis for future cooperation with international partners.

| B. Program Change Summary (\$ in Millions) | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total |
|-------------------------------------------------------|---------|---------|--------------|-------------|---------------|
| Previous President's Budget | 9.827 | 10.139 | 10.420 | - | 10.420 |
| Current President's Budget | 9.597 | 10.125 | 10.350 | - | 10.350 |
| Total Adjustments | -0.230 | -0.014 | -0.070 | - | -0.070 |
| Congressional General Reductions | - | - | | | |
| Congressional Directed Reductions | - | - | | | |
| Congressional Rescissions | - | - | | | |
| Congressional Adds | - | - | | | |
| Congressional Directed Transfers | - | - | | | |
| Reprogrammings | -0.005 | -0.014 | | | |
| SBIR/STTR Transfer | -0.225 | _ | | | |
| Baseline program adjustments | - | - | -0.070 | - | -0.070 |

| xhibit R-2, RDT&E Budget Item Justification: PB 2016 Office of the Sec | cretary Of Defense | Date: February 2015 | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------------------|--|--|
| ppropriation/Budget Activity 400: Research, Development, Test & Evaluation, Defense-Wide I BA 4: dvanced Component Development & Prototypes (ACD&P) | R-1 Program Element (Number/Name) PE 0603923D8Z / Coalition Warfare | , | | |
| Change Summary Explanation Program baseline reduced minimally to fund other department priorit | ties. | | | |
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| Exhibit R-2A, RDT&E Project J | xhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense | | | | | | | | | | Date: February 2015 | | | |
|----------------------------------------|--------------------------------------------------------------------------------------|---------|---------|-----------------|---------------------------------------------------------------------|------------------|---------|---------|------------------------------------------------|---------|---------------------|---------------|--|--|
| Appropriation/Budget Activity 0400 / 4 | | | | | R-1 Program Element (Number/Name) PE 0603923D8Z / Coalition Warfare | | | | Project (Number/Name) P923 / Coalition Warfare | | | | | |
| COST (\$ in Millions) | Prior Years | FY 2014 | FY 2015 | FY 2016 Base | FY 2016 OCO | FY 2016 Total | FY 2017 | FY 2018 | FY 2019 | FY 2020 | Cost To Complete | Total Cost | | |
| P923: Coalition Warfare | 21.948 | 9.597 | 10.125 | 10.350 | - | 10.350 | 10.432 | 10.910 | 11.204 | 11.353 | Continuing | Continuing | | |
| Quantity of RDT&E Articles | - | - | - | - | - | - | - | - | - | - | | | | |

A. Mission Description and Budget Item Justification

Current U.S. military strategy and the global security environment make coalition warfare and multinational operations fundamental features of the U.S. national security strategy. Coalitions provide a broad base of technological, operational, and logistical support for military operations and ease the U.S. financial and manpower burdens associated with meeting military goals and objectives. U.S. strategic guidance confirms that coalitions and relationships with international partners are high priorities for the nation and the Department of Defense.

The Coalition Warfare Program (CWP) responds to this guidance by supporting DoD organizations that: 1) work with foreign partners to collaboratively address strategic technology gaps for current and future missions; 2) develop interoperability solutions for coalition operations; and 3) develop and strengthen defense relationships. CWP is the only Office of the Secretary of Defense (OSD) program with this mission. CWP supplements a U.S. Government proponent's funding for cooperative efforts, ensuring U.S. funds are sufficient to complete the engagement with the foreign partner(s). When CWP funds are used to help fund a cooperative project, that project leverages technical and financial contributions of the foreign partner(s) and speeds up the development and delivery of technical solutions to the warfighter. In its thirteen-year history, CWP has leveraged \$4 of foreign partner funding for every \$1 of U.S. Government investment, and \$3 of other U.S. Government funding for every \$1 CWP has invested in cooperative projects.

CWP funding enables DoD project teams to move a technology into the next stage of development or to complete and transition a technology to operational forces. These projects may also form the basis for future cooperation with international partners.

| B. Accomplishments/Planned Programs (\$ in Millions) | FY 2014 | FY 2015 | FY 2016 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|---------|
| Title: Previous Year Continuing Projects | 8.233 | 4.703 | 0.668 |
| Description: Program provided additional funding to projects that began in earlier selection cycles. | | | |
| FY 2014 Accomplishments: Continued efforts that will result in delivery of: a new fast running model for blast propagation through failing blast doors in tunnels; a micro-scale vibrational energy harvester capable of operating at low frequency; new body armor design with enhanced protection; and a GPS anti-jam antenna system for submarines. | | | |
| FY 2015 Plans: Continuation of efforts that will result in delivery of: improved radar modeling capability; software tool to improve real-time communications connectivity in urban settings; and GPS anti-jam algorithms for operation in a fast rotor environment. | | | |
| FY 2016 Plans: | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2016 Office | of the Secretary Of Defense | Date | February 2015 | 5 | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|---------|---------------------------------------------|---------|--|--|
| Appropriation/Budget Activity 0400 / 4 | R-1 Program Element (Number/Name) PE 0603923D8Z / Coalition Warfare | | ject (Number/Name) 3 / Coalition Warfare | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 | FY 2016 | | |
| Completion of efforts that will improve submarine force networe explosives, and optimize algorithms and provide numerical too ships. | | naval | | | | |
| Title: Allied Munitions Detection - Underwater Initiative | | | 0.607 | 0.77 | | |
| Description: Bilateral US Navy project to evaluate, analyze an classification and mapping of bottom and buried underwater mand autonomous underwater survey system. | | anned | | | | |
| FY 2015 Plans: Data analysis, algorithm improvement, and sea trial. | | | | | | |
| FY 2016 Plans: Data analysis from first sea trial, system analysis and improve | ments, and sea trial. | | | | | |
| Title: Disposable Chem-Bio Identification Technology | | | 0.136 | 0.37 | | |
| Description: Bilateral US Army project to develop, characterizidentification and diagnostics capability using a novel commerce. | | al | | | | |
| FY 2015 Plans: Develop signature library and initial color-change algorithm; de | evelop and procure materials for testing. | | | | | |
| FY 2016 Plans: | | | | | | |
| Continue to develop color-change algorithm(s); integrate chemmanufacture/integrate prototype; develop prototype software; the field; publish final reports and technical data package. | | d in | | | | |
| Title: Enhanced Ultraviolet Photodiodes for Biological Aerosol | Sensors | 0.05 | 0 0.404 | 0.32 | | |
| Description: US Army project to develop and test enhanced U | JV photodiode modules in US and ROK biological aerosol sen | sors. | | | | |
| FY 2014 Accomplishments: Consultated on design and fabrication of silicon photodiode. | | | | | | |
| FY 2015 Plans: Design, fabrication, and testing of photodiodes. | | | | | | |
| FY 2016 Plans: | | | | | | |

| hibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense | Dat | e: February 201 | - |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------|---------|
| | | c. I Columny 20 IN |) |
| propriation/Budget Activity 00 / 4 R-1 Program Element (Number/Name) PE 0603923D8Z / Coalition Warfare | Project (Numb P923 / Coalition | | |
| Accomplishments/Planned Programs (\$ in Millions) | FY 201 | 4 FY 2015 | FY 2016 |
| finement and additional testing of photodiodes. | | | |
| le: Enhanced Unmanned Underwater Mine Neutralization Capability | | - 0.320 | 0.32 |
| scription: Bilateral US Navy project to develop and test autonomous mine neutralization behaviors, target (mine) record image enhancement in reduced visibility conditions, in order to enable autonomous mine neutralization. | gnition | | |
| 2015 Plans: velop target recognition capabilities and port algorithms to test bed. | | | |
| 7 2016 Plans: velop image enhancement capabilities, integrate components, and conduct joint trial. | | | |
| le: Hypertemporal Imaging (HTI) Field Trials for Dim Target Detection | | - 0.480 | 0.47 |
| scription: Bilateral US Air Force project to perform realistic trials of a novel target detection technology that would lead aduction of a HTI Technology concept of operations in support of missile warning and battlespace awareness. | d to the | | |
| 2015 Plans: rdware purchase and test site scouting. | | | |
| 7 2016 Plans: rdware purchase and field testing. | | | |
| le: Eye Safer Laser for Directed Energy | | - 0.650 | 0.85 |
| scription: Bilateral US Navy project to develop eye safer lasers for directed energy laser weapons. | | | |
| 2015 Plans: sign and fabrication of laser fiber structure. | | | |
| 2016 Plans: sign optimization and fiber laser testing. | | | |
| le: Microbial Fuel Cells (MFC) as Underwater Power Enablers for Sensors | | - 0.200 | 0.53 |
| scription: Bilateral US Navy project to develop an MFC system for increased underwater power to sensors in marine vironments. | | | |
| 2015 Plans: corporate materials and conduct laboratory demonstration. | | | |
| 2016 Plans: | | | |

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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Office | of the Secretary Of Defense | | Date: F | ebruary 2015 | | |
| Appropriation/Budget Activity 0400 / 4 | R-1 Program Element (Number/Name) PE 0603923D8Z I Coalition Warfare | | Project (Number/Name) P923 I Coalition Warfare | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | | FY 2014 | FY 2015 | FY 2016 | |
| Evaluate system and conduct prototype operationally relevant | t testing. | | | | | |
| Title: Monitoring and Controlling Multiple Assets within Comp | lex Environments | | - | 0.400 | 0.35 | |
| Description: Bilateral US Navy project to develop human-ma and effective unmanned air system operations. | chine interface software prototypes and specifications to enab | ole safe | | | | |
| FY 2015 Plans: Scenario development and evaluation of interface alternatives | 3 | | | | | |
| FY 2016 Plans: Modify and test prototypes. | | | | | | |
| Title: Multispectral Augmented Visually Enhanced Reality Ima | aging Capability | | 0.203 | 0.247 | 0.323 | |
| Description: Bilateral US Special Operations Command projection of the command project acquisition of the command proje | | | | | | |
| FY 2014 Accomplishments: Performed analysis and technology assessment. | | | | | | |
| FY 2015 Plans: Hardware development. | | | | | | |
| FY 2016 Plans: Operational testing. | | | | | | |
| Title: Non-Lethal Maritime Vessel Disablement | | | 0.070 | 0.456 | 0.45 | |
| Description: Bilateral US Navy project to develop the material lethal solutions for maritime vessel stopping/disabling. | als and mechanisms for a distinct tactical delivery system of no | on- | | | | |
| FY 2014 Accomplishments: Test support. | | | | | | |
| FY 2015 Plans: Material refinement and large scale trials. | | | | | | |
| FY 2016 Plans: Prototype refinement and testing. | | | | | | |
| Title: Periscope Vulnerability and Visualization Tactical Decis | ion Aid | | - | 0.400 | 0.420 | |
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| Exhibit R-2A, RDT&E Project Justification: PB 2016 Office or | f the Secretary Of Defense | Date: F | Date: February 2015 | | | | |
| Appropriation/Budget Activity 0400 / 4 | R-1 Program Element (Number/Name) PE 0603923D8Z I Coalition Warfare | | Project (Number/Name) P923 / Coalition Warfare | | | | |
| B. Accomplishments/Planned Programs (\$ in Millions) | | FY 2014 | FY 2015 | FY 2016 | | | |
| Description: Bilateral US Navy project to produce a modern su | ubmarine vulnerability assessment tool. | | | | | | |
| FY 2015 Plans: Conduct technical information exchanges and develop modeling | g approach. | | | | | | |
| FY 2016 Plans: Demonstrate and refine software. | | | | | | | |
| Title: Project Selections | | - | - | 3.42 | | | |
| Description: Program will conduct competitive nomination prod | cess to identify new projects. | | | | | | |
| FY 2016 Plans: Projects selected based on COCOM, Service, Joint Staff, OSD, | , and DoD Agency priorities and requirements. | | | | | | |
| Title: Coalition Warfare Program (CWP) Support | | 0.521 | 0.591 | 0.54 | | | |
| Description: Program funds contractors to support CWP program consistent with the policies and principles articulated in Department progress toward goals and objectives to include tracking project and risk to higher authorities; briefing and providing recommend and continuing CWP projects; supporting periodic meetings to fawith foreign partners; supporting CWP proposal selection procedure briefing program stakeholders on the status of CWP projects are Service, Agency, and OSD personnel about the CWP and the consistency. | ment of Defense directives and regulations; monitoring project budget execution; providing assessments of program statudations to the Director, International Cooperation concerning foster international cooperation and improve U.S. interoperates and coordinating financial activities at the OUSD(AT&L) Ind interoperability initiatives; educating Combatant Command | ct is new oility evel; | | | | | |
| FY 2014 Accomplishments: Contractor provided management support of the CWP, attended ongoing projects' technical and financial performance. | d RDT&E meetings and events, and monitored and manage | d | | | | | |
| FY 2015 Plans: Contractor provides management support of the CWP, to include and events, and monitors and manages projects' technical and | | eetings | | | | | |
| FY 2016 Plans: Contractor provides management support of the CWP, to include and events, and monitors and manages projects' technical and | | eetings | | | | | |
| Title: Interoperability and Collaboration Initiatives | | 0.520 | 0.531 | 0.53 | | | |

| Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary 0 | Exhibit R-2A, RDT&E Project Justification: PB 2016 Office of the Secretary Of Defense | | | | | | |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----|--------------------------------|--|--|--|--|
| | , , | , , | umber/Name) alition Warfare | | | | |
| | | | | | | | |

| PE 0603923D82 I Coalition Warrare | P923 I Coalition W | arrare | |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | FY 2014 | FY 2015 | FY 2016 |
| nent phases, 2) harmonizing common goals between U.S. and forts. Funds support workshops, risk reduction efforts, standard | | | |
| ing U.S. interoperability with foreign partners, and improving | | | |
| g U.S. interoperability with foreign partners and improving | | | |
| ving U.S. interoperability with foreign partners and improving | | | |
| Accomplishments/Planned Programs Subt | otals 9.597 | 10.125 | 10.35 |
| | nned acquisition programs with the aim of 1) promoting coalition nent phases, 2) harmonizing common goals between U.S. and forts. Funds support workshops, risk reduction efforts, standard nent initiatives. ing U.S. interoperability with foreign partners, and improving u.S. interoperability with foreign partners and improving ving U.S. interoperability with foreign partners and improving | nned acquisition programs with the aim of 1) promoting coalition nent phases, 2) harmonizing common goals between U.S. and forts. Funds support workshops, risk reduction efforts, standards nent initiatives. ing U.S. interoperability with foreign partners, and improving ug U.S. interoperability with foreign partners and improving ving U.S. interoperability with foreign partners and improving | FY 2014 FY 2015 Inned acquisition programs with the aim of 1) promoting coalition nent phases, 2) harmonizing common goals between U.S. and forts. Funds support workshops, risk reduction efforts, standards nent initiatives. In a common goals between U.S. and forts, standards nent initiatives. In a common goals between U.S. and forts, standards nent initiatives. In a common goals between U.S. and forts, standards nent initiatives. In a common goals between U.S. and forts, standards nent initiatives. In a common goals between U.S. and forts, standards nent initiatives. In a common goals between U.S. and forts, standards nent initiatives. In a common goals between U.S. and forts, standards nent initiatives. In a common goals between U.S. and forts, standards nent initiatives. |

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

N/A **Remarks**

D. Acquisition Strategy

The Combatant Commands, Services, Defense Agencies, and the Office of the Secretary of Defense nominate candidate projects on an annual basis. CWP provides selected projects up to three years of funding. The Program selects projects that address DoD priorities and meet the needs and requirements specified by the Joint Staff and the Combatant Commanders. Projects have equitable contributions from international partners, strong potential for transition, and contribute to allied interoperability and/or meet a user need.

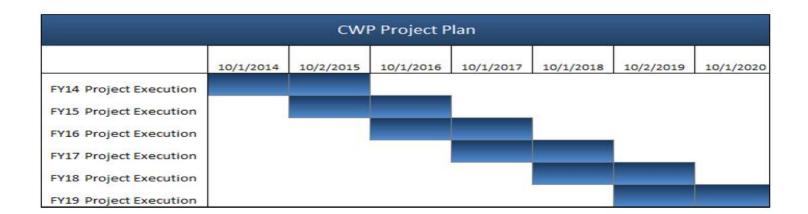
E. Performance Metrics

After successful completion of the competitive nomination process, initial project funding is dependent on receipt of project documentation, which includes financial information, project plan, description of project team, etc. Continued project funding is dependent on compliance with CWP requirements, which include: adequate progress toward each project's stated goals, timely reporting on financial status and project activities, provision of updated project plans and charts, and progress towards transition goals.

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| Exhibit R-3, RDT&E F | Project C | ost Analysis: PB 2 | 016 Offic | e of the S | Secretary | Of Defen | se | | | | | Date: | February | 2015 | |
| Appropriation/Budge 0400 / 4 | et Activity | 1 | | | | R-1 Program Element (Number/Name) PE 0603923D8Z / Coalition Warfare | | | | | | Project (Number/Name) P923 / Coalition Warfare | | | |
| Product Development (\$ in Millions) | | | FY 2014 | | FY 2015 | | FY 2016 Base | | FY 2016 OCO | | FY 2016 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 Contrac |
| Coalition Warfare Program Project Product Development Costs | Various | Various : Various | 14.268 | 6.536 | | 6.677 | | 3.913 | | - | | 3.913 | - | - | - |
| | | Subtotal | 14.268 | 6.536 | | 6.677 | | 3.913 | | - | | 3.913 | - | - | - |
| Test and Evaluation (\$ in Millions) | | | FY 2014 | | FY 2015 | | FY 2016 Base | | | 2016 CO | FY 2016 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 | Total Cost | Target Value of Contract |
| Coalition Warfare Program Project Test and Evaluation Costs | Various | Various : Various | 4.610 | 1.353 | | 1.938 | | 2.405 | | - | | 2.405 | - | - | - |
| | | Subtotal | 4.610 | 1.353 | | 1.938 | | 2.405 | | - | | 2.405 | - | - | - |
| Management Service | es (\$ in M | illions) | | FY 2 | 014 | FY 2 | 015 | FY 2 Ba | | | 2016 CO | FY 2016 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 | Total Cost | Target Value of Contract |
| Coalition Warfare Program Project Management Services Costs | Various | Various : Various | 3.070 | 1.708 | | 1.510 | | 4.032 | | - | | 4.032 | - | - | - |
| | | Subtotal | 3.070 | 1.708 | | 1.510 | | 4.032 | | - | | 4.032 | - | | - |
| | | | Prior Years | FY 2014 | | FY 2015 | | FY 2016 FY 2015 Base | | | 2016 CO | FY 2016 Total | Cost To | Total Cost | Target Value of Contrac |
| | | Project Cost Totals | 21.948 | 9.597 | | 10.125 | | 10.350 | | - | | 10.350 | - | - | - |

Remarks

| Exhibit R-4, RDT&E Schedule Profile: PB 2016 Office of the Secretary Of De | Date: February 2015 | | |
|----------------------------------------------------------------------------|-----------------------------------|--------------------------|--|
| Appropriation/Budget Activity | R-1 Program Element (Number/Name) | Project (Number/Name) | |
| 0400 / 4 | PE 0603923D8Z / Coalition Warfare | P923 I Coalition Warfare | |



| Exhibit R-4A, RDT&E Schedule Details: PB 2016 Office of the Secretary Of D | Date: February 2015 | |
|----------------------------------------------------------------------------|-----------------------------------|--------------------------|
| 1 | R-1 Program Element (Number/Name) | Project (Number/Name) |
| 0400 / 4 | PE 0603923D8Z / Coalition Warfare | P923 I Coalition Warfare |

Schedule Details

| | Start | | End | |
|----------------------------|---------|------|---------|------|
| Events | Quarter | Year | Quarter | Year |
| FY14 CWP Project Execution | 1 | 2014 | 4 | 2015 |
| FY15 CWP Project Execution | 1 | 2015 | 4 | 2016 |
| FY16 CWP Project Execution | 1 | 2016 | 4 | 2017 |
| FY17 CWP Project Execution | 1 | 2017 | 4 | 2018 |
| FY18 CWP Project Execution | 1 | 2018 | 4 | 2019 |
| FY19 CWP Project Execution | 1 | 2019 | 4 | 2020 |