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| **SOLICITANTE** | **CENAPRED** | **PROYECTO DE INVESTIGACIÓN** | **Estudio Paleosismológico y de Sismología Observacional del Sismo de Ameca de 1567/68, en la zona occidental de la Faja Volcánica Trans-Mexicana y sus repercusiones para la determinación del riesgo sísmico de la región Jalisco-Colima.** |

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| **N°** | **ACTIVIDADES** | | **PLAZO** | | | **1**  **MES** | **2 MES** | **3**  **MES** | **4**  **MES** | **5**  **MES** | **6**  **MES** | **7**  **MES** | **8**  **MES** | **9 MES** | **10**  **MES** | **11**  **MES** | **12**  **MES** | **13**  **MES** | **14**  **MES** | **15**  **MES** | **16**  **MES** | **17**  **MES** | **18**  **MES** | **19**  **MES** | **20**  **MES** | **21**  **MES** | | | **22**  **MES** | **23**  **MES** | **24**  **MES** | | | **25**  **MES** | **COSTOS** |
| **MESES** | **QUINCENAS** | |
| **1** | **Actividad 1 Gestiones administrativas** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **$ 0** |
| 1.1 | Gestiones de cumplimiento al Oficio Circular no. SRACP/300/1022/2017, emitido por la Secretaría de la Función Pública | **2** | **4** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  |  | | |  |  |
| 1.2 | Gestiones de autorización de procedimiento administrativo y/o jurídico aplicable, según se desprenda de los resultados de lo señalado en el punto 1.1 | **2** | **4** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  |  | | |  | **$ 0** |
| 1.3 | Gestiones UG de Asuntos Jurídicos de la SEGOB y suscripción del instrumento | **3** | **6** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  |  |  | | |  | **$ 0** |
| **2** | **Actividad 2 Evaluación de los datos instrumentales, históricos, geológicos y tectónicos.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **$ 517,000.00** |
| 2.1 | Análisis de la sismicidad histórica e instrumental y otros datos de recuentos históricos de daños. | **2** | | **4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  |  | | **$ 237,000.00** |
| 2.2 | Recopilación de información bibliográfica sobre geología y tectónica de la región. | **2** | | **4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  |  | | **$ 130,000.00** |

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| **SOLICITANTE** | **CENAPRED** | **PROYECTO DE INVESTIGACIÓN** | **Estudio Paleosismológico y de Sismología Observacional del Sismo de Ameca de 1567/68, en la zona occidental de la Faja Volcánica Trans-Mexicana y sus repercusiones para la determinación del riesgo sísmico de la región Jalisco-Colima.** |

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| **N°** | **ACTIVIDADES** | | **PLAZO** | | **1**  **MES** | **2 MES** | **3**  **MES** | **4**  **MES** | **5**  **MES** | **6**  **MES** | **7**  **MES** | **8**  **MES** | **9 MES** | **10**  **MES** | **11**  **MES** | **12**  **MES** | **13**  **MES** | **14**  **MES** | **15**  **MES** | **16**  **MES** | **17**  **MES** | **18**  **MES** | **19**  **MES** | **20**  **MES** | | **21**  **MES** | | **22**  **MES** | | **23**  **MES** | **24**  **MES** | **25**  **MES** | **COSTOS** |
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| **2** | 2.3 | Cartografía preliminar de fallas potencialmente activas. | **2** | **4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  |  |  | **$ 150,000.00** |
| **3** | **Actividad 3 Selección de las fallas activas, estudio geomorfológico y estructural de campo y selección de sitios para estudio paleosismológico. Inicio de Monitoreo micro-sísmico.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **$ 1,322,000.00** |
| 3.1 | Estudio del relieve mediante la fotointerpretación de pares estereoscópicos (de varias escalas) y análisis de fotografías, imágenes de satélite y modelos digitales del terreno. | **2** | **4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  |  | **$ 410,000.00** |
| 3.2 | Selección de sitios para la realización de trincheras en las trazas de las fallas en las que se haya detectado que la deformación está claramente asociada a actividad sísmica. | **2** | **4** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  |  | **$ 432,000.00** |
| 3.3 | Monitoreo Micro-sísmico. | **16** | **32** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |  | |  | |  |  | **$ 480,000.00** |

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| **SOLICITANTE** | | | **CENAPRED** | | **PROYECTO DE INVESTIGACIÓN** | | | | | | **Estudio Paleosismológico y de Sismología Observacional del Sismo de Ameca de 1567/68, en la zona occidental de la Faja Volcánica Trans-Mexicana y sus repercusiones para la determinación del riesgo sísmico de la región Jalisco-Colima.** | | | | | | | | | | | | | | | | | | | | | | |
| **N°** | **ACTIVIDADES** | | | **PLAZO** | | | **1**  **MES** | **2 MES** | **3**  **MES** | **4**  **MES** | | **5**  **MES** | **6**  **MES** | **7**  **MES** | **8**  **MES** | **9 MES** | **10**  **MES** | **11**  **MES** | **12**  **MES** | **13**  **MES** | **14**  **MES** | **15**  **MES** | **16**  **MES** | **17**  **MES** | **18**  **MES** | **19**  **MES** | **20**  **MES** | **21**  **MES** | **22**  **MES** | **23**  **MES** | **24**  **MES** | **25**  **MES** | **COSTOS** |
| **MESES** | | **QUINCENAS** |
| **4** | **Actividad 4 Levantamiento paleosísmico en afloramientos naturales, y trincheras excavadas y determinación de intensidades esperadas para una sismo virtual del tipo del de 1567.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **$ 897,000.00** |
| 4.1 | Descripción y registro gráfico (mediante *photologs* y levantamientos en papel milimétrico) de los materiales afectados por la paleo-deformación, identificación de paleo-eventos (rupturas sísmicas) y toma de muestras para datación. | | **4** | | **8** |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$ 660,000.00** |
| 4.2 | Cálculo de intensidades esperadas para una sismo virtual del tipo del de 1567 mediante simulaciones estocásticas. | | **4** | | **8** |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$ 237,000.00** |
| **5** | **Actividad 5 Análisis de información obtenida acerca de cronologías de ruptura con el fin de identificar eventos sísmicos y elaboración de mapas tectónicos y de peligro.** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **$ 462,000.00** |
| 5.1 | Caracterización de esfuerzos tectónicos regionales con base en mediciones de anisotropía y otros marcadores. | | **4** | | **8** |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$ 110,000.00** |
| 5.2 | Determinación de tasa(s) de deformación, magnitudes máximas probables, y periodos de recurrencia. | | **6** | | **12** |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$ 132,000.00** |

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| **SOLICITANTE** | | | **CENAPRED** | | **PROYECTO DE INVESTIGACIÓN** | | | **Estudio Paleosismológico y de Sismología Observacional del Sismo de Ameca de 1567/68, en la zona occidental de la Faja Volcánica Trans-Mexicana y sus repercusiones para la determinación del riesgo sísmico de la región Jalisco-Colima.** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **N°** | **ACTIVIDADES** | | | **PLAZO** | | | **1**  **MES** | | **2 MES** | **3**  **MES** | **4**  **MES** | **5**  **MES** | **6**  **MES** | **7**  **MES** | **8**  **MES** | **9 MES** | **10**  **MES** | **11**  **MES** | **12**  **MES** | **13**  **MES** | **14**  **MES** | **15**  **MES** | **16**  **MES** | **17**  **MES** | **18**  **MES** | **19**  **MES** | **20**  **MES** | **21**  **MES** | **22**  **MES** | **23**  **MES** | **24**  **MES** | **25**  **MES** | **COSTOS** |
| **MESES** | | **QUINCENAS** |
| **5** | 5.3 | Mapa de fallas potencialmente activas del límite norte del Bloque de Jalisco, caracterización paleosismológica preliminar incluyendo evaluación y caracterización de posibles paleoterremotos. Mapa de peligro sísmico. | | **4** | | **8** |  | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **$ 220,000.00** |
|  | | | | | | | | | | | | | | | | | | | | | | | | | **Subtotal 1** | | | | | | | | **$ 3,198,000.00** |
| **COPARTICIPACIÓN** | | | | | | | | **$0.0** |
| **FOPREDEN** | | | | | | | | **$ 3,198,000.00** |
| **TOTAL PROYECTO DE INVESTIGACIÓN** | | | | | | | | **$ 3,198,000.00** |

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| **Gastos de Operación y Supervisión** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | **(f)** |
| **1** | **No aplica** |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |
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| **Calendario de Aportaciones** | **MESES 1 a 8** | **MES**  **9** | **MES**  **10** | **MES**  **11** | **MES**  **12** | **MES**  **13** | **MES**  **14** | **MES**  **15** | **MES**  **16** | **MES**  **17** | **MES**  **18** | **MES**  **19** | **MES**  **20** | **MES**  **21** | **MES**  **22** | **MES**  **23** | **MES**  **24** | **MES**  **25** | **TOTAL** |
|  | **$517,000.00** |  | **$842,000.00** |  |  |  | **$897,000.00** |  |  |  | **$110,000.00** |  |  |  |  |  | **$832,000.00** | **$3,198,000.00** |

El presente Proyecto de Investigación para la Prevención fue aprobado en la Quinta Sesión Extraordinaria a del Comité Interno de la Subcuenta de Investigación para la Prevención del Fondo para la Prevención de Desastres Naturales (Se anexa acta).