

|     | Nombre de tarea                                                                                  | Valor planeado: PV<br>(CPTR) | % AVANCE<br>PLANIFICADO | % EJECUCION<br>PRESUPUESTAL | %<br>completado | Valor acumulado<br>VA (CPTR) | VP                    | %VP         | IRP         |
|-----|--------------------------------------------------------------------------------------------------|------------------------------|-------------------------|-----------------------------|-----------------|------------------------------|-----------------------|-------------|-------------|
| 1   | <b>OPTIMIZACION ACUEDUCTO ZARZAL</b>                                                             | <b>\$ 22,751,421,915</b>     | <b>62%</b>              | <b>63%</b>                  | <b>57%</b>      | <b>\$ 23,155,847,222</b>     | <b>\$ 442,425,286</b> | <b>2%</b>   | <b>1.02</b> |
| 2   | <b>INICIO</b>                                                                                    | \$ 0                         | 0%                      | 0%                          | 100%            | \$ 0                         | \$ 0                  | 0%          | 0           |
| 3   | OBSERVACIONES REFORMULACION                                                                      | \$ 0                         | 0%                      | 0%                          | 100%            | \$ 0                         | \$ 0                  | 0%          | 0           |
| 4   | <b>REINICIO CUR-1127</b>                                                                         | \$ 0                         | 0%                      | 0%                          | 100%            | \$ 0                         | \$ 0                  | 0%          | 0           |
| 5   | <b>SUMINISTRO E INSTALACION DE 13290m DE RED DE ADUCCION EN TUBERIA DE HDD = 450 mm Clase 30</b> | <b>\$ 21,476,449,624</b>     | <b>89%</b>              | <b>90%</b>                  | <b>68%</b>      | <b>21,706,805,385</b>        | <b>\$ 230,355,762</b> | <b>1%</b>   | <b>1.01</b> |
| 6   | INSTALACION TUBERIA HD 450 MM                                                                    | \$ 4,480,996,615             | 77%                     | 87%                         | 88%             | \$ 5,078,385,618             | \$ 597,389,003        | 13%         | 1.13        |
| 7   | SUMINISTRO E INSTALACION DE ACCESORIOS HD 450 MM                                                 | \$ 2,889,841,490             | 77%                     | 68%                         | 69%             | \$ 2,559,851,319             | \$ 329,990,171        | -11%        | 0.89        |
| 8   | ANCLAJES                                                                                         | \$ 199,236,140               | 77%                     | 73%                         | 73%             | \$ 189,462,292               | \$ -9,773,848         | -5%         | 0.95        |
| 9   | CONSTRUCCION CAMARAS VENTOSAS Y PUR                                                              | \$ 467,624,213               | 73%                     | 77%                         | 77%             | \$ 492,985,479               | \$ 25,361,266         | 5%          | 1.05        |
| 10  | CONSTRUCCION BERMA CUNETA                                                                        | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 11  | TALA ARBOLES, AROTAPAS Y PELDAÑOS                                                                | \$ 102,140,644               | 74%                     | 36%                         | 36%             | \$ 49,510,155                | \$ -52,630,489        | -52%        | 0.48        |
| 12  | SUMINISTRO TUBERIA HD 450 MM                                                                     | \$ 13,336,610,522            | 100%                    | 100%                        | 100%            | \$ 13,336,610,522            | \$ 0                  | 0%          | 1           |
| 13  | <b>Paso elevado río La Paila - No.1, 40 ml</b>                                                   | <b>\$ 33,175,910</b>         | <b>10%</b>              | <b>6%</b>                   | <b>13%</b>      | <b>\$ 18,244,752</b>         | <b>\$ 14,931,158</b>  | <b>-45%</b> | <b>0.55</b> |
| 14  | EXCAVACIONES, RELLENOS Y RETIROS                                                                 | \$ 33,175,910                | 100%                    | 0%                          | 0%              | \$ 0                         | \$ -33,175,910        | -100%       | 0           |
| 15  | CONSTRUCCION DE PILOTOS                                                                          | \$ 0                         | 0%                      | 63%                         | 63%             | \$ 11,838,808                | \$ 11,838,808         | 0%          | 0           |
| 16  | ACERO DE REFUERZO                                                                                | \$ 0                         | 0%                      | 11%                         | 11%             | \$ 6,405,944                 | \$ 6,405,944          | 0%          | 0           |
| 17  | CIMENTACION EN CONCRETO                                                                          | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 18  | ACERO ESTRUCTURAL ASTM A-36                                                                      | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 19  | CABLES DE ACERO                                                                                  | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 20  | <b>Paso elevado río La Paila - 70 ml</b>                                                         | <b>\$ 0</b>                  | <b>0%</b>               | <b>0%</b>                   | <b>0%</b>       | <b>\$ 0</b>                  | <b>\$ 0</b>           | <b>0%</b>   | <b>0</b>    |
| 21  | EXCAVACIONES Y RELLENOS                                                                          | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 22  | PILOTOS CON CONCRETO                                                                             | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 23  | ACERO DE REFUERZO                                                                                | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 24  | ACERO ESTRUCT. ASTM A-36                                                                         | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 25  | CABLES DE ACERO Y ELEMENTOS GALVANIZADOS                                                         | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 26  | <b>Paso elevado quebrada Las Cañas - 38</b>                                                      | <b>\$ 0</b>                  | <b>0%</b>               | <b>0%</b>                   | <b>0%</b>       | <b>\$ 0</b>                  | <b>\$ 0</b>           | <b>0%</b>   | <b>0</b>    |
| 27  | EXCAVACIONES Y RELLENOS                                                                          | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 28  | PILOTOS CON CONCRETO                                                                             | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 29  | ACERO DE REFUERZO                                                                                | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 30  | ACERO ESTRUCT. ASTM A-36                                                                         | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 31  | CABLES DE ACERO Y ELEMENTOS GALVANIZADOS                                                         | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 32  | <b>Paso con perforación horizontal - 130 ml</b>                                                  | <b>\$ 200,155,565</b>        | <b>19%</b>              | <b>19%</b>                  | <b>18%</b>      | <b>\$ 202,375,072</b>        | <b>\$ 2,219,507</b>   | <b>1%</b>   | <b>1.01</b> |
| 33  | RAMMING 1 (K 05+194-K 05+219)                                                                    | \$ 0                         | 0%                      | 1%                          | 1%              | \$ 2,219,507                 | \$ 2,219,507          | 0%          | 0           |
| 34  | RAMMING 2 (K 05+527-K 05+560)                                                                    | \$ 200,155,565               | 70%                     | 70%                         | 70%             | \$ 200,155,565               | \$ 0                  | 0%          | 1           |
| 35  | RAMMING 3 (K 05+663-K 05+681)                                                                    | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 36  | RAMMING 4 (K 05+824-K 05+867)                                                                    | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 37  | <b>Bomba tipo turbina vertical Q= 55.3 lps Bombeo 1 (4 un)</b>                                   | <b>\$ 0</b>                  | <b>0%</b>               | <b>0%</b>                   | <b>0%</b>       | <b>\$ 0</b>                  | <b>\$ 0</b>           | <b>0%</b>   | <b>0</b>    |
| 38  | SUMINISTRO BOMBAS TURBINA VERTICAL Q=55 LPS 15 HP                                                | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 39  | INSTALACION Y PUESTA EN MARCHA BOMBAS 15 HP                                                      | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 40  | <b>Bomba tipo turbina vertical Q= 53.3 lps Bombeo 2 (4 un)</b>                                   | <b>\$ 0</b>                  | <b>0%</b>               | <b>0%</b>                   | <b>0%</b>       | <b>\$ 0</b>                  | <b>\$ 0</b>           | <b>0%</b>   | <b>0</b>    |
| 41  | SUMINISTRO BOMBAS TURBINA VERTICAL Q=53 LPS 55 HP                                                | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 42  | INSTALACION Y PUESTA EN MARCHA 55 HP                                                             | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 43  | <b>Obras captación bocatoma Cumba</b>                                                            | <b>\$ 51,528,622</b>         | <b>10%</b>              | <b>49%</b>                  | <b>11%</b>      | <b>\$ 257,848,990</b>        | <b>\$ 206,320,368</b> | <b>400%</b> | <b>5</b>    |
| 44  | OBRA PRELIMINARES CUMBA                                                                          | \$ 51,528,622                | 100%                    | 1%                          | 1%              | \$ 515,286                   | \$ 51,013,336         | -99%        | 0.01        |
| 45  | MEJORAMIENTO VIAS DE AFIRMADO                                                                    | \$ 0                         | 0%                      | 64%                         | 64%             | \$ 257,333,704               | \$ 257,333,704        | 0%          | 0           |
| 46  | RESTITUCION PAVIMENTOS DE CONCRETO HIDRAULICO                                                    | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 47  | ENCAMISADO EN POLIETILENO DE TUBOS DE BOCATOMA                                                   | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 48  | <b>Acometida en media tensión Subestación eléctrica 300 KVA</b>                                  | <b>\$ 0</b>                  | <b>0%</b>               | <b>0%</b>                   | <b>0%</b>       | <b>\$ 0</b>                  | <b>\$ 0</b>           | <b>0%</b>   | <b>0</b>    |
| 49  | PROTECCIONES                                                                                     | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 50  | BAJANTE MEDIA TENSION                                                                            | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 51  | EQUIPOS PARA MEDICION                                                                            | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 52  | ACOMETIDA EN MEDIA TENSION                                                                       | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 53  | CANALIZACION MEDIA TENSION                                                                       | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 54  | SUBESTACION                                                                                      | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 55  | PLANTA DE EMERGENCIA                                                                             | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 56  | TABLEROS                                                                                         | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 57  | ACOMETIDAS                                                                                       | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 58  | CANALIZACION EN BAJA TENSION                                                                     | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 59  | ILUMINACION PERIMETRAL                                                                           | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 60  | DERECHOS INTERVENTORIA                                                                           | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 61  | <b>Pozo de bombeo No. 1</b>                                                                      | <b>\$ 226,226,775</b>        | <b>51%</b>              | <b>47%</b>                  | <b>83%</b>      | <b>\$ 208,132,002</b>        | <b>\$ 18,094,773</b>  | <b>-8%</b>  | <b>0.92</b> |
| 62  | SUMINISTRO E INSTALACION ACCESORIOS FLAUTA DE SALIDA                                             | \$ 0                         | 0%                      | 6%                          | 6%              | \$ 11,326,495                | \$ 11,326,495         | 0%          | 0           |
| 63  | PRELIMINARES DEMOLICIONES RETIROS                                                                | \$ 116,951,654               | 100%                    | 96%                         | 100%            | \$ 112,273,588               | \$ -4,678,066         | -4%         | 0.96        |
| 64  | EXCAVACIONES Y RELLENOS                                                                          | \$ 2,584,687                 | 100%                    | 49%                         | 100%            | \$ 1,266,497                 | \$ -1,318,190         | -51%        | 0.49        |
| 65  | CIMENTACION CASETA BOMBEO                                                                        | \$ 7,854,844                 | 100%                    | 68%                         | 68%             | \$ 5,341,294                 | \$ -2,513,550         | -32%        | 0.68        |
| 66  | ESTRUCTURA CONCRETO REFORZADO CASETAS                                                            | \$ 36,866,697                | 100%                    | 84%                         | 100%            | \$ 30,968,026                | \$ -5,898,672         | -16%        | 0.84        |
| 67  | CUBIERTA CASETA                                                                                  | \$ 3,019,343                 | 15%                     | 0%                          | 0%              | \$ 0                         | \$ -3,019,343         | -100%       | 0           |
| 68  | MUROS                                                                                            | \$ 10,596,317                | 100%                    | 94%                         | 100%            | \$ 9,960,538                 | \$ -635,779           | -6%         | 0.94        |
| 69  | ACERO DE REFUERZO                                                                                | \$ 46,551,084                | 100%                    | 70%                         | 100%            | \$ 32,585,759                | \$ -13,965,325        | -30%        | 0.7         |
| 70  | ACABADOS Y CORTINA                                                                               | \$ 0                         | 0%                      | 34%                         | 34%             | \$ 4,409,807                 | \$ 4,409,807          | 0%          | 0           |
| 71  | ANCLAJE CODOS                                                                                    | \$ 1,802,149                 | 100%                    | 0%                          | 0%              | \$ -1,802,149                | -100%                 | 0           | 0           |
| 72  | <b>Impulsión a desarenador</b>                                                                   | <b>\$ 187,901,115</b>        | <b>100%</b>             | <b>71%</b>                  | <b>60%</b>      | <b>\$ 134,149,551</b>        | <b>\$ 53,751,564</b>  | <b>-29%</b> | <b>0.71</b> |
| 73  | EXCAVACIONES Y RELLENOS                                                                          | \$ 11,608,703                | 100%                    | 47%                         | 47%             | \$ 5,456,090                 | \$ -6,152,613         | -53%        | 0.47        |
| 74  | SUMINISTRO E INSTALACION TUBERIA, ACCESORIOS 20"                                                 | \$ 176,292,412               | 100%                    | 73%                         | 73%             | \$ 128,693,461               | \$ -47,598,951        | -27%        | 0.73        |
| 75  | <b>Desarenación</b>                                                                              | <b>\$ 368,956,528</b>        | <b>34%</b>              | <b>38%</b>                  | <b>40%</b>      | <b>\$ 417,019,802</b>        | <b>\$ 48,063,274</b>  | <b>13%</b>  | <b>1.13</b> |
| 76  | LOCALIZACION Y REPLANTEO                                                                         | \$ 16,753,716                | 100%                    | 94%                         | 94%             | \$ 15,748,493                | \$ -1,005,223         | -6%         | 0.94        |
| 77  | EXCAVACIONES Y RELLENOS                                                                          | \$ 87,147,493                | 100%                    | 19%                         | 19%             | \$ 16,558,024                | \$ -70,589,469        | -81%        | 0.19        |
| 78  | DEMOLICION DESARENADORES EXISTENTES                                                              | \$ 39,217,080                | 100%                    | 90%                         | 90%             | \$ 35,295,372                | \$ -3,921,708         | -10%        | 0.9         |
| 79  | CONSTRUCCION DESARENADOR EN CONCRETO                                                             | \$ 92,398,028                | 49%                     | 34%                         | 34%             | \$ 64,753,014                | \$ -27,645,014        | -30%        | 0.7         |
| 80  | ACERO DE REFUERZO                                                                                | \$ 91,873,107                | 62%                     | 62%                         | 62%             | \$ 92,408,742                | \$ 535,635            | 1%          | 1.01        |
| 81  | LIMPIEZA DE CONCRETO                                                                             | \$ 2,701,621                 | 100%                    | 99%                         | 100%            | \$ 2,674,605                 | \$ -27,016            | -1%         | 0.99        |
| 82  | SISTEMA DE LAVADO                                                                                | \$ 38,865,484                | 100%                    | 74%                         | 74%             | \$ 28,760,458                | \$ -10,105,026        | -26%        | 0.74        |
| 83  | SUMINISTRO E INSTALACION LINEA DESARENADOR POZO No.2                                             | \$ 0                         | 0%                      | 28%                         | 28%             | \$ 160,821,095               | \$ 160,821,095        | 0%          | 0           |
| 84  | <b>Pozo de bombeo No. 2</b>                                                                      | <b>\$ 137,585,161</b>        | <b>23%</b>              | <b>29%</b>                  | <b>80%</b>      | <b>\$ 176,103,077</b>        | <b>\$ 38,517,916</b>  | <b>28%</b>  | <b>1.28</b> |
| 85  | SUMINISTRO E INSTALACION ACCESORIOS FLAUTA DE SALIDA                                             | \$ 0                         | 0%                      | 15%                         | 15%             | \$ 62,572,565                | \$ 62,572,565         | 0%          | 0           |
| 86  | PRELIMINARES                                                                                     | \$ 1,386,691                 | 100%                    | 100%                        | 100%            | \$ 1,386,691                 | \$ 0                  | 0%          | 1           |
| 87  | EXCAVACIONES Y RELLENOS                                                                          | \$ 18,983,772                | 100%                    | 96%                         | 100%            | \$ 18,224,421                | \$ -759,351           | -4%         | 0.96        |
| 88  | CIMENTACION CASETA BOMBEO                                                                        | \$ 8,596,917                 | 100%                    | 52%                         | 52%             | \$ 4,470,397                 | \$ -4,126,520         | -48%        | 0.52        |
| 89  | ESTRUCTURA CONCRETO REFORZADO CASETAS                                                            | \$ 39,852,749                | 100%                    | 84%                         | 100%            | \$ 33,476,309                | \$ -6,376,440         | -16%        | 0.84        |
| 90  | CUBIERTA CASETA                                                                                  | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 91  | MUROS                                                                                            | \$ 18,613,510                | 100%                    | 62%                         | 95%             | \$ 11,540,376                | \$ -7,073,134         | -38%        | 0.62        |
| 92  | ACERO DE REFUERZO                                                                                | \$ 50,151,522                | 100%                    | 79%                         | 100%            | \$ 39,619,102                | \$ -10,531,620        | -21%        | 0.79        |
| 93  | ACABADOS Y CORTINA                                                                               | \$ 0                         | 0%                      | 20%                         | 20%             | \$ 4,812,615                 | \$ 4,812,615          | 0%          | 0           |
| 94  | <b>Demolición tanque existente</b>                                                               | <b>\$ 0</b>                  | <b>0%</b>               | <b>0%</b>                   | <b>0%</b>       | <b>\$ 0</b>                  | <b>\$ 0</b>           | <b>0%</b>   | <b>0</b>    |
| 95  | DEMOLICION TANQUE EXISTENTE                                                                      | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 96  | <b>Construcción tanque de almacenamiento</b>                                                     | <b>\$ 19,007,073</b>         | <b>1%</b>               | <b>1%</b>                   | <b>6%</b>       | <b>\$ 35,436,480</b>         | <b>\$ 16,429,407</b>  | <b>86%</b>  | <b>1.86</b> |
| 97  | TALA DE ARBOLES                                                                                  | \$ 19,007,073                | 100%                    | 100%                        | 100%            | \$ 19,007,073                | \$ 0                  | 0%          | 1           |
| 98  | EXCAVACIONES Y RELLENOS                                                                          | \$ 0                         | 0%                      | 1%                          | 1%              | \$ 16,429,407                | \$ 16,429,407         | 0%          | 0           |
| 99  | CONSTRUCCION TANQUE CONCRETO REFORZADO                                                           | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 100 | SUMINISTRO E INSTAL ACCESORIOS TANQUE COMPENSACION CAUDALES                                      | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 101 | <b>Construcción tanque de Elevado de 35 m3.</b>                                                  | <b>\$ 50,435,542</b>         | <b>6%</b>               | <b>4%</b>                   | <b>14%</b>      | <b>\$ 37,732,090</b>         | <b>\$ 12,703,452</b>  | <b>-25%</b> | <b>0.75</b> |
| 102 | CIMENTACION TANQUE ELEVADO                                                                       | \$ 50,435,542                | 60%                     | 45%                         | 45%             | \$ 37,732,090                | \$ -12,703,452        | -25%        | 0.75        |
| 103 | ACERO ESTRUCTURAL AS72 GRADO 50                                                                  | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 104 | SUMI E INSTAL TANQUE FIBRA DE VIDRIO                                                             | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 105 | LINEA DE DESCARGA TANQUE ELEVADO                                                                 | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 106 | LINEA DE LLENADO TANQUE ELEVADO                                                                  | \$ 0                         | 0%                      | 0%                          | 0%              | \$ 0                         | \$ 0                  | 0%          | 0           |
| 107 | <b>FIN</b>                                                                                       | <b>\$ 0</b>                  | <b>0%</b>               | <b>0%</b>                   | <b>0%</b>       | <b>\$ 0</b>                  | <b>\$ 0</b>           | <b>0%</b>   | <b>0</b>    |

