GOBERNACIÓN DE CAQUETÁ

# ACTA DE MAYORES Y MENORES CANTIDADES DE OBRA

## CONTRATO DE OBRA NO 202300000721 DEL 18 DE JULIO DE 2023

**PRESUPUESTO : CONSTRUCCION RED DE ELECTRIFICACION RURAL DE MEDIA, BAJA TENSION CON MONTAJE DE SUBESTACIONES AEREAS PARA LA VEREDA CAPITOLIO Y LAS MARGARITAS DEL MUNICIPIO DE FLORENCIA Y LA MONTAÑITA DEPARTAMENTO DEL CAQUETA.**

| ITEM | ACTIVIDAD | CONDICIONES INICIALES | | | | | | | | MAYORES Y MENORES CANTIDADES DE OBRA | | | CONDICIONES FINALES | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | UND | CANT | MATERIALES | MANO DE OBRA | E & H | TRANSPORTE | VALOR UNITARIO | TOTAL | (+) o (-) | CANT | VALOR | CANT | TOTAL |
| | **RED DE MEDIA TENSIÓN MONOFASICA A 13 200 VOLTIOS** | | | | | | | | | | | | | |
| 1 | **LOCALIZACION Y REPLANTEO EN MEDIA TENSION** | | | | | | | | | | | | | |
| 1.1 | LOCALIZACION Y REPLANTEO LINEA DE MEDIA TENSION | Km | 1.40 | 0 | 473,875 | 84,375 | 100,000 | 658,250 | 920,892 | (+) | 0.08 | 53,318 | 1.48 | 974,210 |
| 2 | **APOYOS MEDIA TENSION** | | | | | | | | | | | | | |
| 2.1 | EXCAVACIONES PARA POSTES EN TERRENO COMUN LINEA DE MEDIA TENSION | Un | 20.00 | | 90,313 | 4,800 | 48,000 | 143,113 | 2,862,250 | (+) | 2.00 | 286,225 | 22 | 3,148,475 |
| 2.2 | SUMINISTRO, TRANSPORTE E INSTALACION DE POSTE POLIMERICO MONOLITICO DE 10 METROS X510 KG | Un | 20.00 | 1,957,000 | 90,270 | 8,000 | 116,800 | 2,172,070 | 43,441,400 | (+) | 2.00 | 4,344,140 | 22 | 47,785,540 |
| 3 | **VESTIDA / ARMADA POSTES MEDIA TENSION** | | | | | | | | | | | | | |
| 3.1 | SUMINISTRO, TRANSPORTE E INSTALACION ESTRUCTURA TIPO IPSE NC - (710) | Un | 3.00 | 1,361,412 | 225,675 | 7,200 | 56,800 | 1,651,087 | 4,953,261 | 0 | 0.00 | 0 | 3 | 4,953,261 |
| 3.2 | SUMINISTRO, TRANSPORTE E INSTALACION ESTRUCTURA TIPO IPSE NC - (731) | Un | 1.00 | 1,331,074 | 241,060 | 7,200 | 56,800 | 1,636,134 | 1,636,134 | 0 | 0.00 | 0 | 1 | 1,636,134 |
| 3.3 | SUMINISTRO, TRANSPORTE E INSTALACION ESTRUCTURA TIPO IPSE NC - (510) | Un | 10.00 | 269,092 | 128,957 | 1,800 | 21,300 | 421,149 | 4,211,491 | 0 | 0.00 | 0 | 10 | 4,211,491 |
| 3.4 | SUMINISTRO, TRANSPORTE E INSTALACION ESTRUCTURA TIPO IPSE NC - (512) | Un | 1.00 | 538,384 | 180,540 | 1,920 | 31,950 | 752,794 | 752,794 | (+) | 1.00 | 752,794 | 2 | 1,505,588 |
| 3.5 | SUMINISTRO, TRANSPORTE E INSTALACION ESTRUCTURA TIPO IPSE NC - (514) | Un | 11.00 | 708,134 | 180,540 | 2,160 | 35,500 | 926,334 | 10,189,674 | (+) | 4.00 | 3,705,336 | 15 | 13,895,010 |
| 3.6 | SUMINISTRO, TRANSPORTE E INSTALACION ESTRUCTURA TIPO IPSE NC - (515) | Un | 1.00 | 942,554 | 180,540 | 2,280 | 37,630 | 1,163,004 | 1,163,004 | (-) | 1.00 | 1,163,004 | 0.00 | 0 |
| 4 | **TENDIDO RED MEDIA TENSION** | | | | | | | | | | | | | |
| 4.1 | SUMINISTRO, TENDIDO Y TENSIONADO DE CONDUCTORES MEDIA TENSION 2 x 2 ACSR | Km | 1.40 | 10,269,000 | 3,458,367 | 144,000 | 92,300 | 13,963,667 | 19,535,170 | (-) | 0.08 | 1,131,057 | 1.48 | 20,666,227 |
| 4.2 | PLACA PARA CODIFICACION DE EXTRUCTURAS DE MEDIA TENSION A 13,2 kV | Un | 27.00 | 30,000 | 20,931 | 240 | 260 | 51,431 | 1,388,644 | (+) | 4.00 | 205,725 | 31 | 1,594,369 |
| 5 | **TEMPLETES MEDIA TENSION** | | | | | | | | | | | | | |
| 5.1 | EXCAVACIONES PARA VIGUETAS EN TERRENO COMUN, MEDIA TENSION | Un | 16.00 | 0 | 90,313 | 4,800 | 48,000 | 143,113 | 2,289,800 | (+) | 16.00 | 2,289,800 | 18 | 2,576,025 |
| 5.2 | SUMINISTRO, TRANSPORTE E INSTALACION DE TEMPLETES SENCILLOS, MEDIA TENSION | Un | 16.00 | 295,880 | 112,838 | 7,200 | 31,240 | 447,158 | 7,154,520 | (-) | 10.00 | 4,471,575 | 6 | 2,682,945 |
| | **SUBTOTALES** | | | | | | | | 100,499,034 | | | | | 105,629,275 |
| | **TOTAL RED DE MEDIA TENSIÓN MONOFASICA A 13 200 VOLTIOS** | | | | | | | | 100,499,034 | | | | | 105,629,275 |
| | | | | | | | | | | | | | | |
| | **RED DE BAJA TENSIÓN ABIERTA A 220/120 VOLTIOS** | | | | | | | | | | | | | |
| 6 | **LOCALIZACIÓN Y REPLANTEO BAJA TENSION** | | | | | | | | | | | | | |
| 6.1 | LOCALIZACION Y REPLANTEO LINEA DE BAJA TENSION | Km | 1.37 | 0 | 660,875 | 84,375 | 100,000 | 845,250 | 1,153,766 | (-) | 0.03 | 25,358 | 1.40 | 1,179,124 |
| 7 | **APOYOS BAJA TENSION** | | | | | | | | | | | | | |
| 7.1 | EXCAVACIONES PARA POSTES EN TERRENO COMUN, BAJA TENSION | Un | 29.00 | 0 | 90,313 | 4,800 | 48,000 | 143,113 | 4,150,263 | (-) | 5.00 | 715,563 | 24 | 3,434,700 |
| 7.2 | SUMINISTRO, TRANSPORTE E INSTALACION DE POSTE POLIMERICO DE 8 METROS - 510 KG | Un | 29.00 | 1,480,000 | 90,270 | 8,000 | 73,000 | 1,651,270 | 47,886,830 | (-) | 5.00 | 8,256,350 | 24 | 39,630,480 |
| 8 | **VESTIDA / ARMADA POSTES BAJA TENSION** | | | | | | | | | | | | | |
| 8.1 | SUMINISTRO, TRANSPORTE E INSTALACION ESTRUCTURA TIPO IPSE NC - 617 | Un | 16.00 | 77,400 | 72,250 | 1,200 | 4,970 | 155,820 | 2,493,120 | (-) | 7.00 | 1,090,740 | 9 | 1,402,380 |
| 8.2 | SUMINISTRO, TRANSPORTE E INSTALACION ESTRUCTURA TIPO IPSE NC - 619 | Un | 32.00 | 77,400 | 72,250 | 1,200 | 4,970 | 155,820 | 4,986,240 | 0 | 0.00 | 0 | 32 | 4,986,240 |
| 9.2 | SUMINISTRO, TENDIDO Y TENSIONADO DE CONDUCTORES BAJA TENSION 3 x 2 ACSR | Km | 1.37 | 15,403,500 | 3,554,700 | 144,000 | 319,500 | 19,421,700 | 26,510,621 | (+) | 0.03 | 582,651 | 1.40 | 27,093,272 |
| 10 | **TEMPLETES BAJA TENSION** | | | | | | | | | | | | | |
| 10.1 | EXCAVACIONES PARA VIGUETAS EN TERRENO COMUN, BAJA TENSION | Un | 35.00 | 0 | 84,320 | 4,800 | 48,000 | 137,120 | 4,799,200 | (-) | 5.00 | 685,600 | 30 | 4,113,600 |
| 10.2 | SUMINISTRO, TRANSPORTE E INSTALACION DE TEMPLETES SENCILLOS BAJA TENSION | Un | 35.00 | 277,130 | 112,838 | 7,200 | 28,400 | 425,568 | 14,894,863 | (-) | 5.00 | 2,127,838 | 30 | 12,767,025 |
| 10.3 | **PUESTA A TIERRA BAJA TENSION** | | | | | | | | | | | | | |
| 10.4 | SUMINISTRO, TRANSPORTE E INSTALACION DE ATERRIZAJE DE ESTRUCTURA TERMINAL DE BAJA TENSIÓN CON BAJANTE DE ACERO GALVANIZADO EXTRAFESISTENTE 9,5 MM Y VARILLA DE PUESTA A TIERRA ACERO GALVANIZADO 70 MICRAS 5/8 X 2,4 MTS, CON CONECTOR NORMA RETIE (INCLUYE ACCESORIOS) | Un | 11.00 | 180,800 | 84,320 | 1,200 | 7,100 | 273,420 | 3,007,620 | (-) | 1.00 | 273,420 | 10 | 2,734,200 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SUBTOTALES** | | | | | | | | 109,882,522 | | | | | 97,341,020 |
| | **TOTAL RED DE BAJA TENSIÓN ABIERTA A 220/120 VOLTIOS** | | | | | | | | 109,882,522 | | | | | 97,341,020 |
| | | | | | | | | | | | | | | |
| | **TRANSFORMACIÓN 13200/220/120 VOLTIOS** | | | | | | | | | | | | | |
| **12** | **TRANSFORMADORES** | | | | | | | | | | | | | |
| 12.1 | SUMINISTRO, TRANSPORTE E INSTALACION DE TRANSFORMADOR MONOFASICO DE 5 KVA | Un | 1.00 | 4,631,000 | 661,300 | 64,000 | 85,200 | 5,441,500 | 5,441,500 | 0 | 0.00 | 0 | 1 | 5,441,500 |
| 12.2 | SUMINISTRO, TRANSPORTE E INSTALACION DE TRANSFORMADOR MONOFÁSICO DE 10 KVA | Un | 2.00 | 7,898,480 | 661,300 | 64,000 | 99,400 | 8,723,180 | 17,446,360 | 0 | 0.00 | 0 | 2 | 17,446,360 |
| | **SUBTOTALES** | | | | | | | | 22,887,860 | | | | | 22,887,860 |
| | **TOTAL TRANSFORMACIÓN 13200/220/120 VOLTIOS** | | | | | | | | 22,887,860 | | | | | 22,887,860 |
| | | | | | | | | | | | | | | |
| | **PRECIOS NO PREVISTOS** | | | | | | | | | | | | | |
| 13.1 | SUMINISTRO, TRANSPORTE E INSTALACION DE TEMPLETES TIPO CUERDA GUITARRA PARA MEDIA TENSION | Un | | 427,450 | 144,500 | 7,200 | 36,210 | 615,360 | 0 | | 12 | 7,384,320 | 12 | 7,384,320 |
| | **TOTAL PRECIOS NO PREVISTOS** | | | | | | | | | | | | | |
| | **SUBTOTALES** | | | | | | | | 0 | | | | | 7,384,320 |
| | **COSTOS DIRECTOS** | | | | | | | | 233,269,415 | | | | | 233,242,475 |
| | ADMINISTRACIÓN | 22% | | | | | | | 51,319,271 | | | | | 51,313,345 |
| | IMPREVISTOS | 2% | | | | | | | 4,665,388 | | | | | 4,664,850 |
| | UTILIDAD | 6% | | | | | | | 13,996,165 | | | | | 13,994,549 |
| | **COSTOS INDIRECTOS** | | | | | | | | 69,980,825 | | | | | 69,972,743 |
| | **SUBTOTAL 1 COSTOS DIRECTOS + INDIRECTOS** | | | | | | | | 303,250,240 | | | | | 303,215,218 |
| | **INTERVENTORÍA INTEGRAL** | 10% | | | | | | | | | | | | |
| | **SUBTOTAL 2 ( INDIRECTOS + DIRECTOS + INTERVENTORÍA INTEGRAL)** | | | | | | | | 303,250,240 | | | | | 303,215,218 |
| | **RETIE** | | | | | | | | 6,000,000 | | | | | 6,000,000 |
| | **SUBTOTAL 3 (SUBTOTAL 2 + RETIE+RETILAP)** | | | | | | | | 309,250,240 | | | | | 309,215,218 |
| | **TOTAL PROYECTO** | | | | | | | | 309,250,240 | | | | | 309,215,218 |

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