Nit:900762169
**Provecol del sur S.A.S** RÉGIMEN COMÚN
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## FORMATO No. 2
## PROPUESTA ECONÓMICA

| |
|---|
| **CONTRATACIÓN DE MANO DE OBRA NO CALIFICADA PARA LA EJECUCIÓN DE LAS ACTIVIDADES DE REHABILITACIÓN DEL SISTEMA DE LA PLANTA DE TRATAMIENTO DE AGUA POTABLE (PTAP) DE AGUAS MOCOA S.A. E.S.P., SECTOR LA LOMA, Y LA REHABILITACIÓN DEL CERRAMIENTO Y LA CASETA DE INSPECCIÓN DEL DESARENADOR SECTOR EL LÍBANO, MUNICIPIO DE MOCOA, DEPARTAMENTO DEL PUTUMAYO.** |
| MOCOA PUTUMAYO |
| AGUAS MOCOA S.A. E.S.P. |

| CÓDIGO | DESCRIPCIÓN | UNIDAD | CANT | V/UNITARIO | VALOR TOTAL |
|---|---|---|---|---|---|
| **1** | **OBRAS PRELIMINARES** | **GL** | **1,0** | | **$ 43.551.512** |
| **1.1** | **ACTIVIDADES PRELIMINARES** | **GL** | | | |
| 1.1.1 | LOCALIZACION-REPLANTEO | M2 | 1.294,21 | $ 17.963 | $ 23.247.896 |
| | | | | **sub total** | **$ 23.247.896** |
| | | | | | |
| **1.2** | **MOVIMIENTOS TIERRA** | **GL** | | | |
| 1.2.1 | ACARREO MATERIALES PETREOS-TIERRA-VARIOS | M3-KM | 73,43 | $ 15.000 | $ 1.101.408 |
| 1.2.2 | EXCAVACION MANUAL.TIERRA SECA H=1.8M(SR) | M3 | 294,77 | $ 30.716 | $ 9.054.269 |
| 1.2.3 | CARGUE MATERIAL MANUAL | M3 | 73,43 | $ 24.707 | $ 1.814.210 |
| 1.2.4 | RELLENO MATERIAL SITIO MANUAL | M3 | 294,77 | $ 28.045 | $ 8.266.941 |
| 1.2.5 | DEMOL.LOSA ALIGERADA E<=25CMS | M2 | 1,44 | $ 46.381 | $ 66.789 |
| | | | | **sub total** | **$ 20.303.617** |
| | | | | | |
| | | | | **SUB TOTAL** | **$ 43.551.512** |
| | | | | | |
| **2** | **ALCANTARILLADO** | **GL** | **1,0** | | **$ 8.150.458** |
| **2.1** | **UNIDAD DE BOMBEO Y/O INYECCION** | **GL** | | | |
| 2.1.1 | UNIDAD DE CLORACION | UND | 1,0 | $ 1.164.826 | $ 1.164.826 |
| | | | | **sub total** | **$ 1.164.826** |
| | | | | | |
| **2.2** | **CAMARAS - RECAMARAS - CABEZAL** | | | | |
| 2.2.1 | CAMARA INSPECCION TIPO B H=0.00-1.50 MTS | UND | 3,0 | $ 507.484 | $ 1.522.452 |
| 2.2.2 | SUMIDERO DOBLE | UND | 1,0 | $ 395.272 | $ 395.272 |
| 2.2.3 | RETIRO TUBERIA EXISTENTE 0" A 12" | ML | 96,00 | $ 26.710 | $ 2.564.150 |
| 2.2.4 | EMPALME TUB PVC 4"-12" CAMARA CONCRETO | UND | 6,0 | $ 138.405 | $ 830.428 |
| | | | | **sub total** | **$ 5.312.302** |

| | | | | | |
|---|---|---|---|---|---|
| **2.3** | **TUBERIA POLIVINILICA** | | | | |
| 2.3.1 | TUB PVC NOVAFORT 6" | ML | 12,0 | $ 17.847 | $ 214.163 |
| 2.3.2 | TUB PVC NOVAFORT 8" | ML | 0,00 | $ 23.796 | $ 0 |
| 2.3.3 | TUB PVC NOVAFORT 12" | ML | 81,76 | $ 17.847 | $ 1.459.167 |
| | | | | **sub total** | **$ 1.673.331** |
| | | | | | |
| | | | | **SUB TOTAL** | **$ 8.150.458** |
| | | | | | |
| **3** | **EQUIPOS PRESION - BOMBEO** | **GL** | **1,0** | | **$ 1.056.489** |
| **3.1** | **CONTROLES - PROTECCIONES** | **GL** | | | |
| 3.1.1 | ARRANCADOR VOL-C10 110-220 40-50AMP | UND | 1,0 | $ 193.767 | $ 193.767 |
| 3.1.2 | MONITOR DE VOLTAJE | UND | 1,0 | $ 138.405 | $ 138.405 |
| 3.1.3 | CONTACTOR ABIERTO 60 AMP AC3 220 VOL | UND | 1,0 | $ 161.472 | $ 161.472 |
| 3.1.4 | HIMEL | UND | 1,0 | $ 96.883 | $ 96.883 |
| 3.1.5 | RELE BIMETALICO TERMICO 32-40 AMP | UND | 1,0 | $ 96.883 | $ 96.883 |
| 3.1.6 | PULSADOR LUMINOSO VERDE | UND | 1,0 | $ 46.135 | $ 46.135 |
| 3.1.7 | CONTROL DE NIVEL POZO TIPO GWARRICK | UND | 1,0 | $ 138.405 | $ 138.405 |
| 3.1.8 | TABL CONTR DUPLEX 3600RPM 1.0HP-10.0AM | UND | 1,0 | $ 184.540 | $ 184.540 |
| | | | | **sub total** | **$ 1.056.489** |
| | | | | | |
| | | | | **SUB TOTAL** | **$ 1.056.489** |
| | | | | | |
| **4** | **RED ACUEDUCTO** | **GL** | **1,0** | | **$ 10.215.691** |
| **4.1** | **VALVULAS-CHEQUES-COMPUERTA-VAR** | **GL** | | | |
| 4.1.1 | BOLA DE COBRE D=1"-2" | UND | 1,0 | $ 32.780 | $ 32.780 |
| 4.1.2 | VALV PIE CANAST BRONCE D=3" | UND | 1,0 | $ 65.560 | $ 65.560 |
| 4.1.3 | VALV RETENCION ASTM A-126 4 PG INCLUYE VASTAGO | UND | 6,0 | $ 115.337 | $ 692.024 |
| 4.1.4 | VALV RETENCION ASTM A-126 8PG INCLUYE VASTAGO | UND | 8,0 | $ 184.540 | $ 1.476.317 |
| 4.1.5 | DESMONTE Y REINSTALACION VALV RETENCION ASTM A-126 8 EB | UND | 8,0 | $ 131.120 | $ 1.048.958 |
| 4.1.6 | MANTENIMIENTO VALV RETENCION ASTM A-126 8 EB | UND | 13,0 | $ 131.120 | $ 1.704.557 |
| 4.1.7 | MANTENIMIENTO VALV RETENCION ASTM A-126 4 EB | UND | 10,0 | $ 131.120 | $ 1.311.198 |
| 4.1.8 | RETIRO TUBERIA EXISTENTE 6" | ML | 90,0 | $ 10.684 | $ 961.556 |
| | | | | **sub total** | **$ 7.292.950** |
| | | | | | |
| **4.2** | **LECHOS FILTRANTES (INCLUYE TRASNPORTE)** | | | | |
| 4.2.1 | ANTRACITA B 10072 GRANULOMETRIA 1.5MM | VOL | 19,97 | $ 101.497 | $ 2.026.891 |

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|---|---|---|---|---|---|
| 4.2.2 | MEDIO FILTRANTE GRAVA 1/8-1/2" CU=0.95 | VOL | 3,99 | $ 32.052 | $ 127.887 |
| 4.2.3 | MEDIO FILTRANTE GRAVA 1/2-3/4" CU=0.95 | VOL | 3,99 | $ 32.052 | $ 127.887 |
| 4.2.4 | MEDIO FILTRANTE GRAVA 3/4-1.1/2" CU=0.95 | VOL | 7,99 | $ 32.052 | $ 256.095 |
| 4.2.5 | MEDIO FILTRANTE ARENA TORPEDO DE 1 mm CU=0.95 | VOL | 3,99 | $ 32.052 | $ 127.887 |
| 4.2.6 | MEDIO FILTRANTE ARENA ESTÁNDARD DE 0.5 mm CU=0.95 | VOL | 7,99 | $ 32.052 | $ 256.095 |
| | | | | **sub total** | **$ 2.922.741** |
| | | | | | |
| | | | | **SUB TOTAL** | **$ 10.215.691** |
| | | | | | |
| **5** | **REDES Y LINEAS** | **GL** | **1,0** | | **$ 984.817** |
| **5.1** | **RED REGULADA** | **GL** | | | |
| 5.1.1 | TABLERO MINIGRAMA 12 CTOS | UND | 1,00 | $ 152.245 | $ 152.245 |
| 5.1.2 | MINIBREAKER 1 A 4 AMP RIEL LEGRAND | UND | 1,00 | $ 61.026 | $ 61.026 |
| 5.1.3 | TOMA NARANJA TIERRA AISLADA | UND | 1,00 | $ 13.771 | $ 13.771 |
| 5.1.4 | SAL TOMA 1F (C/T/A/TO:REGULADO P&S) | UND | 1,00 | $ 82.151 | $ 82.151 |
| 5.1.5 | MALLA A TIERRA 3 VARILLAS-PERNADA | UND | 1,00 | $ 347.019 | $ 347.019 |
| 5.1.6 | CABLE TRENZADO 3X12 HL-ZH AWG-REGULADA | ML | 20,00 | $ 16.430 | $ 328.604 |
| | | | | **sub total** | **$ 984.817** |
| | | | | | |
| | | | | **SUB TOTAL** | **$ 984.817** |
| | | | | | |
| **6** | **RED ELECTRICA** | **GL** | **1,0** | | **$ 282.297** |
| **6.1** | **ILUMINACION** | | | | |
| 6.1.1 | FOTOCELDA CON BASE | UND | 1,0 | $ 26.309 | $ 26.309 |
| 6.1.2 | SOPORTE PARA REFLECTOR | UND | 1,0 | $ 159.040 | $ 159.040 |
| 6.1.3 | REFLECTOR 48 LED | UND | 1,0 | $ 96.948 | $ 96.948 |
| | | | | **sub total** | **$ 282.297** |
| | | | | | |
| | | | | **SUB TOTAL** | **$ 282.297** |
| | | | | | |
| **7** | **ESTRUCTURAS** | **GL** | **1,0** | | **$ 250.335** |
| **7.1** | **PANTALLAS CONCRETO** | | | | |
| 7.1.1 | PANTALLA EN CONCRETO 4000 PSI E=10-30CMS | M3 | 0,10 | $ 509.914 | $ 50.991 |
| | | | | **sub total** | **$ 50.991** |
| | | | | | |
| **7.2** | **PERFORACIONES** | | | | |
| 7.2.1 | PERFORACION 8" 21-30CM" | UND | 8,0 | $ 24.918 | $ 199.344 |
| | | | | **sub total** | **$ 199.344** |

| | | | | | |
|---|---|---|---|---|---|
| | | | | **SUB TOTAL** | **$ 250.335** |
| | | | | | |
| **8** | **INSTALACIONES HIDRAULICAS** | **GL** | **1,0000** | | **$ 2.628.028** |
| **8.1** | **TUBERIA HIERRO DUCTIL** | | | | |
| 8.1.1 | TUBERIA HD. 8" | ML | 7,28 | $ 129.178 | $ 940.414 |
| | | | | **sub total** | **$ 940.414** |
| | | | | | |
| **8.2** | **TEE HIERRO DUCTIL** | **GL** | | | |
| 8.2.1 | TEE GALVANIZADA 8" | UND | 1,0 | $ 96.883 | $ 96.883 |
| | | | | **sub total** | **$ 96.883** |
| | | | | | |
| **8.3** | **CODO HIERRO DUCTIL** | **GL** | | | |
| 8.3.1 | CODO HD. 8 x90 | UND | 3,0 | $ 101.497 | $ 304.490 |
| | | | | **sub total** | **$ 304.490** |
| | | | | | |
| **8.4** | **INSTALACIONES-VARIOS GALVANIZA** | **GL** | | | |
| 8.4.1 | INSTAL.ACCES GALVANIZADO 2-4 | UND | 4,0 | $ 30.910 | $ 123.642 |
| | | | | **sub total** | **$ 123.642** |
| | | | | | |
| **8.5** | **TUBERIA PVC U.M.** | **GL** | | | |
| 8.5.1 | TUB.PVC UM 8 RDE 26 | ML | 36,0 | $ 32.294 | $ 1.162.599 |
| | | | | **sub total** | **$ 1.162.599** |
| | | | | | |
| | | | | **SUB TOTAL** | **$ 2.628.028** |
| | | | | | |
| **9** | **INSTALACIONES ELECTRICAS** | **GL** | **1,0** | | **$ 1.778.922** |
| **9.1** | **CABLES Y ALAMBRES** | **GL** | | | |
| 9.1.1 | CABLE COBRE HF-ZH# 10 | ML | 40,0 | $ 17.466 | $ 698.640 |
| | | | | **sub total** | **$ 698.640** |
| | | | | | |
| **9.2** | **TUBERIA ACCESORIOS IMC** | **GL** | | | |
| 9.2.1 | TUBERIA IMC 3/4 GALV | ML | 40,0 | $ 24.585 | $ 983.399 |
| 9.2.2 | CURVA IMC 3/4 GALV | UND | 6,0 | $ 16.147 | $ 96.883 |
| | | | | **sub total** | **$ 1.080.282** |
| | | | | | |
| | | | | **SUB TOTAL** | **$ 1.778.922** |
| | | | | | |
| **10** | **REVESTIMIENTOS** | **GL** | **1,0** | | **$ 55.249.815** |
| **10.1** | **REPELLO MUROS** | | | | |

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|---|---|---|---|---|---|
| 10.1.1 | REPELLO MURO IMPERMEABLE PTAP 1:2 | M2 | 1.957,0 | $ 28.232 | $ 55.249.815 |
| 10.1.2 | REPELLO MURO IMPERMEABLE TANQUE 1:3 | M2 | 0,0 | $ 29.616 | $ 0 |
| | **sub total** | | | | **$ 55.249.815** |
| | | | | | |
| | **SUB TOTAL** | | | | **$ 55.249.815** |
| | | | | | |
| **11** | **PISOS** | **GL** | **1,0** | | **$ 712.580** |
| **11.1** | **BASES-PLACAS-ANDENES** | **GL** | | | |
| 11.1.1 | CONTRAPISO REFORZADO E=13CM 4000 PSI | M2 | 4,38 | $ 162.690 | $ 712.580 |
| | **sub total** | | | | **$ 712.580** |
| | | | | | |
| | **SUB TOTAL** | | | | **$ 712.580** |
| | | | | | |
| **12** | **CARPINTERIA METALICA** | **GL** | **1,0000** | | **$ 1.960.733** |
| **12.1** | **PASAMANOS - BARANDAS** | | | | |
| 12.1.1 | BARANDA INDIV.TUBO GALV. 2" C/SOPORT | ML | 25,0 | $ 78.429 | $ 1.960.733 |
| | **sub total** | | | | **$ 1.960.733** |
| | | | | | |
| | **SUB TOTAL** | | | | **$ 1.960.733** |
| | | | | | |
| **13** | **RECUBRIMIENTO PINTURA** | **GL** | **1,0000** | | **$ 4.346.423** |
| **13.1** | **ACEITE ESMALTE** | | | | |
| 13.1.1 | ESMALTE BARANDA TUBO 2-3 LINEAS+PARALES | ML | 30,00 | $ 36.908 | $ 1.107.238 |
| 13.1.2 | ESMALTE SOBRE LAMINA LLENA | M2 | 1,60 | $ 36.543 | $ 58.470 |
| 13.1.3 | ESMALTE SOBRE TUBERIA METALICA-PVC | ML | 40,00 | $ 45.839 | $ 1.833.577 |
| | | | | **sub total** | **$ 2.999.284** |
| **13.2** | **ANTICORROSIVOS - BASES** | | | | |
| 13.2.1 | ANTICORROSIVA SOBRE LAMINA LINEAL | ML | 40,0000 | $ 32.294 | $ 1.291.777 |
| 13.2.2 | ANTICORROSIVA SOBRE LAMINA LLENA | M2 | 1,6000 | $ 34.601 | $ 55.362 |
| | **sub total** | | | | **$ 1.347.139** |
| | | | | | |
| | **SUB TOTAL** | | | | **$ 4.346.423** |
| | | | | | |
| **14** | **LIMPIEZA - VARIOS** | **GL** | **1,0000** | | **$ 18.546.434** |
| **14.1** | **LIMPIEZA ASEO** | **GL** | | | |
| 14.1.1 | LIMPIEZA CARPINTERIA METALICA | ML | 60,0000 | $ 66.569 | $ 3.994.120 |
| 14.1.2 | LIMPIEZA LAVADO SUPERFICIE- EQ.PRESION | M2 | 1.013,9700 | $ 14.352 | $ 14.552.314 |
| | **sub total** | | | | **$ 18.546.434** |
| | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| | **SUB TOTAL** | | | | **$ 18.546.434** |
| | | | | | |
| **15** | **RETROLAVADO** | **GL** | **1,0** | | **$ 4.603.871** |
| **15.1** | **TUBERIA DE RETROLAVADO** | **GL** | | | |
| 15.1.1 | DEMOLICION CONCRETO / ATRAQUE TUBERIA EXISTENTE EN PLANTA | M3 | 7,20 | $ 161.472 | $ 1.162.599 |
| 15.1.2 | DEMOLICION PAVIMENTO VIA E=0.20 M | M2 | 24,00 | $ 32.294 | $ 775.066 |
| 15.1.3 | DEMOLICION CAMARA EXISTENTE | M2 | 1,30 | $ 55.362 | $ 71.970 |
| 15.1.4 | CONCRETO 4000 PSI ATRAQUE TUBERIA - SOLO M.O. | M3 | 2,16 | $ 118.980 | $ 256.996 |
| | | | | **sub total** | **$ 2.266.632** |
| | | | | | |
| **15.2** | **ESTRUCTURA VIAL** | **GL** | | | |
| 15.2.1 | EXTENDIDA Y COMPACTACION BASE GRANULAR | M3 | 3,60 | $ 36.908 | $ 132.869 |
| 15.2.2 | EXTENDIDA Y COMPACTACION SUB-BASE GRANULAR | M3 | 13,80 | $ 32.294 | $ 445.663 |
| 15.2.3 | FIGURADO E INSTALACION ACERO DE REFUERZO 60000 PSI | KG | 336,80 | $ 1.049 | $ 353.289 |
| 15.2.4 | CONCRETO 4000 PSI PLACA DE VIA E=0.20 M - SOLO M.O. | M3 | 7,20 | $ 131.121 | $ 944.069 |
| | | | | **sub total** | **$ 1.875.889** |
| | | | | | |
| **15.3** | **CAMARA NUEVA** | **GL** | | | |
| 15.3.1 | CONSTRUCCION SUMIDERO DOBLE - SOLO M.O. | UND | 1,00 | $ 461.349 | $ 461.349 |
| | | | | **sub total** | **$ 461.349** |
| **SUB TOTAL** | | | | | **$ 4.603.871** |
| | | | | | |
| **16** | **CASETA DE INSPECCION DESARENADOR** | **GL** | **1,0** | | **$ 9.056.305** |
| **16.1** | **CASETA CERRAMIENTO EN MALLA** | **GL** | | | |
| 16.1.1 | INSTALACION MALLA ESLABONADA H=2.00 M | ML | 38,00 | $ 13.112 | $ 498.255 |
| 16.1.2 | INSTALACION TUBERIA (POSTE) GALV. 2" INCL. DADO | UND | 15,00 | $ 40.975 | $ 614.624 |
| 16.1.3 | INSTALACION ANCLAJES VARILLA 1/2" SOPORTE TUBERIA | UND | 15,00 | $ 24.585 | $ 368.774 |
| 16.1.4 | INSTALACION CONCERTINA | ML | 38,00 | $ 11.473 | $ 435.973 |
| | | | | **sub total** | **$ 1.917.627** |
| | | | | | |
| **16.2** | **CASETA METALICA** | **GL** | | | |
| 16.2.1 | MONTAJE COLUMNA METALICA 10x10 CM | UND | 4,00 | $ 114.730 | $ 458.919 |
| 16.2.2 | VACIADO PEDESTALES EN CONCRETO - SOLO M.O. | M3 | 0,15 | $ 276.809 | $ 41.521 |
| 16.2.3 | BASE DE PISO - VIGA PERIMETRAL - SOLO M.O. | ML | 13,00 | $ 55.362 | $ 719.704 |

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| 16.2.4 | INSTALACION LAMINA METALDECK | M2 | 9,00 | $ 39.336 | $ 354.023 |
| 16.2.5 | CONCRETO PLACA E=0.11 M SOBRE METALDECK - SOLO M.O. | M2 | 9,00 | $ 26.770 | $ 240.934 |
| 16.2.6 | CONSTRUCCION MUROS - SOLO M.O. | M2 | 32,00 | $ 24.585 | $ 786.719 |
| | | | | **sub total** | **$ 2.601.821** |
| **16.3** | **CUBIERTA CASETA METALICA** | **GL** | | | |
| 16.3.1 | FABRICACION Y MONTAJE CERCHA PERIMETRAL | ML | 13,00 | $ 49.170 | $ 639.209 |
| 16.3.2 | FABRICACION Y MONTAJE CERCHAS INTERMEDIAS | ML | 40,00 | $ 49.170 | $ 1.966.797 |
| 16.3.3 | INSTALACION DE CORREAS | ML | 15,00 | $ 29.509 | $ 442.641 |
| 16.3.4 | INSTALACION CUBIERTA LIVIANA | M2 | 9,00 | $ 19.668 | $ 177.012 |
| | | | | **sub total** | **$ 3.225.659** |
| | | | | | |
| **16.4** | **ESCALERA METALICA** | **GL** | | | |
| 16.4.1 | FABRICACION Y MONTAJE ESCALERA METALICA | GLB | 1,00 | $ 1.311.198 | $ 1.311.198 |
| | | | | **sub total** | **$ 1.311.198** |
| **SUB TOTAL** | | | | | **$ 9.056.305** |
| | | | | | |
| | | | | **TOTAL** | **$ 163.374.712** |
| | **COSTO DIRECTO DE LA OBRA** | | | | **$ 163.374.712** |
| | | | | **ADMINISTRACIÓN** 28,0% | **$ 45.777.319** |
| | | | | **IMPREVISTOS** 2,0% | **$ 3.267.494** |
| | | | | **UTILIDAD** 5,0% | **$ 8.168.736** |
| | | | | **SUBTOTAL COSTOS INDIRECTOS** | **$ 57.213.549** |
| | | | | | |
| | | | | **TOTAL COSTO OBRA CIVIL** | **$ 220.588.261** |
| | | | | **ACTIVIDADES COMPLEMENTARIAS** | |
| | | | | | |
| | | | | **VALOR TOTAL DEL PROYECTO** | **$ 220.588.261** |

VALOR EN LETRAS: Doscientos veinte millones quinientos ochenta y ocho mil doscientos sesenta y un pesos.

Nombre del proponente: PROVECOL DEL SUR SAS
Nombre del Representante Legal: MARINA DEL ROSARIO TOBAR TELLO
C. C. No. 27094552 de Pasto

FIRMA (Proponente o Representante Legal)

# ANEXO No. 4B
# ANÁLISIS DE PRECIOS UNITARIOS

| | | | | |
|---|---|---|---|---|
| **ITEM 1.1.1** | | | **UNIDAD** | M2 |
| **DESCRIPCIÓN** | | | **CANTIDAD** | 1294,21 |
| **LOCALIZACION-REPLANTEO** | | | | |
| | | | | |
| **I. MANO DE OBRA** | | | | |
| **DESCRIPCIÓN** | **CANT/REND** | **RENDIMIENTO** | **PRECIO (HORAS)** | **V/UNITARIO** |
| | | | | |
| | | | | |
| AYUDANTE DE OBRA + PRESTACIONES | 2 | 0,240 | $ 12.719,00 | $ 6.105,12 |
| OFICIAL DE OBRA + PRESTACIONES | 1 | 0,240 | $ 18.500,00 | $ 4.440,00 |
| TOPOGRAFO + PRESTACIONES | 1 | 0,240 | $ 27.343,75 | $ 6.562,50 |
| | | | | |
| | sub total | | | **$ 17.107,62** |
| | | | | |
| **II. EQUIPOS** | | | | |
| | | | | |
| HERRAMIENTA MENOR 5% | GLB | 1,0000 | $ 855,38 | $ 855,38 |
| | sub total | | | $ 855,38 |
| | | | | |
| **III MATERIALES** | | | | |
| | **UNIDAD** | **RENDIMIENTO** | **PRECIO UNITARIO** | **V/UNITARIO** |
| | | | | |
| LISTON 2" x 2" x 280 cm | UND | 0,0350 | $ 7.750,00 | $ 271,25 |
| PUNTILLA 2 CC | LBS | 0,0030 | $ 5.200,00 | $ 15,60 |
| PIOLA GRUESA x 50M | ROL | 0,0010 | $ 3.500,00 | $ 3,50 |
| DESPERDICIO | 5% | | | $ 14,52 |
| | sub total | | | $ 304,87 |

| | | | | |
|---|---|---|---|---|
| **ITEM 1.2.1** | | | **UNIDAD** | **M3-KM** |
| **DESCRIPCIÓN** | | | **CANTIDAD** | **73,43** |
| **ACARREO MATERIALES PETREOS-TIERRA-VARIOS** | | | | |
| | | | | |
| **I. TRANSPORTES** | | | | |
| **DESCRIPCIÓN** | **UNIDAD** | **CANT/REND** | **TARIFA** | **V/UNITARIO** |
| | | | | |
| VOLQUETA(ACARREO) | M3-KM | 7,5 | $ 2.000,00 | $ 15.000,00 |
| | sub total | | | $ 15.000,00 |
| | | | | |
| | | | | |
| | Total costo total de recursos | | | **$ 15.000,00** |

| | | | | |
|---|---|---|---|---|
| **ITEM 1.2.2** | | | **UNIDAD** | **M3** |
| **DESCRIPCIÓN** | | | **CANTIDAD** | **294,77** |
| **EXCAVACION MANUAL.TIERRA SECA H=1.8M(SR)** | | | | |
| | | | | |
| **I. MANO DE OBRA** | | | | |
| **DESCRIPCIÓN** | **CANT/REND** | **RENDIMIENTO** | **PRECIO (HORAS)** | **V/UNITARIO** |
| | | | | |
| | | | | |
| AYUDANTE DE OBRA + PRESTACIONES | 1 | 2,3000 | $ 12.719,00 | $ 29.253,70 |
| | sub total | | | **$ 29.253,70** |
| | | | | |
| **II.EQUIPOS** | | | | |
| | | | | |
| HERRAMIENTA MENOR 5% | GLB | 1,0000 | $ 1.462,69 | $ 1.462,69 |
| | sub total | | | $ 1.462,69 |
| | | | | |
| | | | | |
| | Total costo total de recursos | | | **$ 30.716,39** |