

## EXPEDIENTE TÉCNICO

Proyecto: "MEJORAMIENTO DEL SERVICIO DE EDUCACIÓN BÁSICA REGULAR DE LA INSTITUCIÓN EDUCATIVA N°093 EFRAÍN ARCAYA ZEVALLOS DEL DISTRITO DE ZARUMILLA-PROVINCIA DE ZARUMILLA-DEPARTAMENTO DE TUMBES"

# RELACION DE INSUMOS DE ESTRUCTURA

## Precios y cantidades de recursos requeridos por tipo

Obra 8502019 MEJORAMIENTO DEL SERVICIO DE EDUCACION BASICA REGULAR DE LA INSTITUCION EDUCATIVA N° 093 EFRAIN ARCAZA ZEVALLOS DEL DISTRITO DE ZARUMILLA, PROVINCIA DE ZARUMILLA DEPARTAMENTO DE TUMBES

Subpresupuesto 002 ESTRUCTURAS

Fecha 01/12/2022

Lugar 240301 TUMBES - ZARUMILLA - ZARUMILLA

00-2947

GOBIERNO REGIONAL TUMBES  
SECRETARIA GENERAL DE ADMINISTRACION  
ADMINIST. DOCUMENTARIA  
FOLIO N° 2947

| Código              | Recurso   | Unidad | Cantidad     | Precio S/. | Parcial S/.         |
|---------------------|---|--------|--------------|------------|---------------------|
| <b>MANO DE OBRA</b> |   |        |              |            |                     |
| 0147010002          | OPERARIO  | HH     | 65,340.9440  | 26.23      | 1,713,892.96        |
| 0147010003          | OFICIAL   | HH     | 63,521.1982  | 20.64      | 1,311,077.53        |
| 0147010004          | PEON  | HH     | 101,674.3929 | 18.68      | 1,899,277.66        |
|                     |   |        |              |            | <b>4,924,248.15</b> |
| <b>MATERIALES</b>   |   |        |              |            |                     |
| 0202010064          | CLAVOS PARA MADERA C/C 2" A 4"                              | KG     | 7,333.5561   | 5.93       | 43,487.99           |
| 0202040009          | ALAMBRE NEGRO N°16  | KG     | 23,048.4841  | 5.93       | 136,677.51          |
| 0202040010          | ALAMBRE NEGRO N°8   | KG     | 10,422.9781  | 5.93       | 61,808.26           |
| 0202110109          | ACERO LISO Ø 3/8"   | ML     | 92.7000      | 7.80       | 723.06              |
| 0202110131          | ACERO LISO Ø 3/4"   | ML     | 1,243.2960   | 7.70       | 9,573.38            |
| 0202230035          | PIN Ø 5/8"x15" NORMA ASTM A 325                             | UND    | 12.0000      | 8.60       | 103.20              |
| 0202510128          | PERNO PUNTA BROCA INC/ARANDELA Y JEBE                       | UND    | 17,741.7600  | 1.15       | 20,403.02           |
| 0202970042          | ACERO CORRUGADO FY=4200 KG/CM2 GRADO 60                     | KG     | 800,844.1996 | 4.81       | 3,852,060.60        |
| 0202970050          | ACERO LISO Ø 1/2"   | ML     | 7,805.3000   | 9.20       | 71,808.76           |
| 0202970051          | ACERO LISO Ø 5/8"   | ML     | 7,229.9205   | 13.83      | 99,989.80           |
| 0202970064          | ACERO LISO Ø 1"   | ML     | 324.0000     | 26.66      | 8,637.84            |
| 0202990046          | PERNO 5/8" X 10" C/TUERCA, CONTRATUER Y ARANDELA DE PRESION | UND    | 144.0000     | 1.20       | 172.80              |
| 0202991005          | BOLINES DE Ø 5/8" x 10"                                     | UND    | 48.0000      | 9.65       | 463.20              |
| 0203020006          | ACERO CORRUGADO 3/8"  | ML     | 1,176.0000   | 6.66       | 7,832.16            |
| 0204000000          | ARENA FINA  | M3     | 317.9070     | 80.51      | 25,594.69           |
| 0204020001          | ARENA GRUESA  | M3     | 2,984.4130   | 72.03      | 214,967.27          |
| 0205000003          | PIEDRA CHANCADA DE 1/2"                                     | M3     | 4,085.2432   | 120.00     | 490,229.18          |
| 0205020020          | PIEDRA MEDIANA  | M3     | 12.1728      | 75.00      | 912.96              |
| 0205020021          | PIEDRA GRANDE   | M3     | 212.6100     | 130.00     | 27,639.30           |
| 0205020067          | ROCA DE 6" A 8"   | M3     | 964.1014     | 130.00     | 125,333.18          |
| 0205990001          | AGUA  | M3     | 2,361.2240   | 25.00      | 59,030.60           |
| 0213010003          | ASFALTO RC - 250  | GLN    | 104.0400     | 18.00      | 1,872.72            |
| 0217140023          | LADRILLO DE TECHO ARCILLA MAQUINADO 15X30X30CM              | UND    | 63,739.0000  | 3.70       | 235,834.30          |
| 0221000098          | CEMENTO PORTLAND EXTRAFORTE ICO 42.5 KG                     | BOL    | 35,122.7612  | 25.82      | 906,869.69          |
| 0223010003          | CEMENTO PORTLAND ANTI SALITRE TIPO MS (BOL. x 42.5 KG)      | BOL    | 20,989.5878  | 27.24      | 571,756.37          |
| 0226300016          | ACOPLADOR Ø 1" MECANICO                                     | UND    | 36.0000      | 16.20      | 583.20              |
| 0226300017          | ACOPLADOR Ø 3/4" MECANICO                                   | UND    | 18.1440      | 12.00      | 217.73              |
| 0229120072          | WATER STOP 6" ANCHO NORMAL NAT. NEGRO 70 SHR                | ML     | 32.9600      | 8.95       | 294.99              |
| 0229500091          | SOLDADURA   | KG     | 504.3610     | 15.25      | 7,691.51            |
| 0230020173          | MANGUITO ROSCADO Ø 5/8"                                     | UND    | 74.1000      | 1.20       | 88.92               |
| 0230020174          | MANGUITO ROSCADO Ø 1"                                       | UND    | 15.0000      | 10.20      | 153.00              |
| 0230020175          | MANGUITO ROSCADO Ø 3/4"                                     | UND    | 22.6800      | 6.20       | 140.62              |
| 0230190013          | ADITIVO CURADOR DE CONCRETO                                 | GLN    | 4,815.3189   | 36.56      | 176,048.06          |
| 0230340071          | PROGRAMA DE SEÑALIZACION                                    | GLB    | 1.0000       | 1,481.16   | 1,481.16            |
| 0230340074          | PROGRAMA DE CONTROL DE EMISIONES ATMOSFERICAS               | GLB    | 1.0000       | 83,648.40  | 83,648.40           |
| 0230340078          | PROGRAMA DE MONITOREO AMBIENTAL                             | GLB    | 1.0000       | 45,000.00  | 45,000.00           |
| 0230340081          | PROGRAMA DE CONTINGENCIAS                                   | GLB    | 1.0000       | 3,000.00   | 3,000.00            |
| 0230340091          | PROGRAMA DE ABANDONO DE OBRA                                | GLB    | 1.0000       | 9,000.00   | 9,000.00            |
| 0230340093          | PROGRAMA DE MANEJO DE RESIDUOS DE CONSTRUCCION              | GLB    | 1.0000       | 10,610.00  | 10,610.00           |
| 0230340095          | PROGRAMA DE MANEJO DE AGUAS RESIDUALES                      | GLB    | 1.0000       | 30,800.00  | 30,800.00           |
| 0230810062          | PLANCHA DE ALUZINC TIPO T1, e=0.40mm                        | M2     | 635.2080     | 34.50      | 21,914.68           |
| 0230810068          | CALAMINON CU e=0.50mm                                       | M2     | 2,469.6000   | 76.27      | 188,356.39          |
| 0230860073          | ADITIVO IMPERMEABILIZANTE                                   | GLN    | 50.9670      | 24.32      | 1,239.52            |
| 0232970587          | ARGOLLA FIERRO LISO 3/4"                                    | UND    | 45.3600      | 5.30       | 240.41              |
| 0238000000          | HORMIGON  | M3     | 4,621.2972   | 67.80      | 313,323.95          |
| 0238110003          | AFIRMADO  | M3     | 1,595.2708   | 63.56      | 101,395.41          |
| 0239020108          | LIJA PARA ELEMENTOS METALICOS                               | HJA    | 537.5687     | 2.11       | 1,134.27            |
| 0239300004          | TECNOPORT 1" (1.20*2.40)                                    | PLN    | 36.0672      | 11.86      | 427.76              |
| 0243010003          | MADERA TORNILLO   | P2     | 182,222.6986 | 9.92       | 1,807,649.17        |
| 0243160052          | REGLA DE MADERA   | P2     | 6.6138       | 6.78       | 44.84               |
| 0251070043          | TUBO CUADRADO 2" x 2", e=2.5mm                              | ML     | 432.0000     | 12.50      | 5,400.00            |
| 0251070044          | TUBO CUADRADO 1 1/2" x 1 1/2" x 6m e=2.5mm                  | ML     | 288.0000     | 10.40      | 2,995.20            |
| 0251070216          | TUBO RECTANGULAR NEGRO 2" x 3", e=2mm                       | ML     | 793.8000     | 14.62      | 11,605.36           |
| 0251210012          | ANGULO FIERRO NEGRO DE 50x50x6mm                            | ML     | 1,440.0000   | 18.65      | 26,856.00           |
| 0253030033          | THINER ACRILICO   | GLN    | 190.1137     | 13.54      | 2,574.14            |
| 0254020042          | PINTURA ESMALTE SINTETICO                                   | GLN    | 141.0480     | 53.31      | 7,519.27            |
| 0254060000          | PINTURA ANTICORROSIVA                                       | GLN    | 141.0474     | 40.68      | 5,737.81            |
| 0256220108          | PLANCHA DE ACERO E=1/4"                                     | M2     | 4.5723       | 145.65     | 665.96              |
| 0256220110          | PLANCHA DE ACERO LAF 1/4"                                   | M2     | 22.8000      | 145.65     | 3,320.82            |



*[Handwritten Signature]*  
Ingeniero Civil  
CIP 241018

## Precios y cantidades de recursos requeridos por tipo

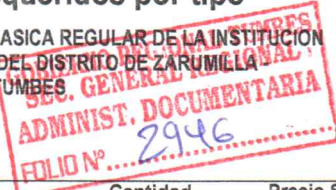
Obra 8502019 MEJORAMIENTO DEL SERVICIO DE EDUCACION BASICA REGULAR DE LA INSTITUCION EDUCATIVA N° 093 EFRAIN ARCAYA ZEVALLOS DEL DISTRITO DE ZARUMILLA PROVINCIA DE ZARUMILLA DEPARTAMENTO DE TUMBES ESTRUCTURAS

Subpresupuesto 002

Fecha 01/12/2022

Lugar 240301 TUMBES - ZARUMILLA - ZARUMILLA

002946



| Código     | Recurso                              | Unidad | Cantidad | Precio S/. | Parcial S/. |
|------------|--------------------------------------|--------|----------|------------|-------------|
| 0256220114 | PLANCHA DE ACERO LAF 3/16"           | PLN    | 6.9112   | 419.49     | 2,899.18    |
| 0256220125 | PLANCHA DE ACERO DE 3/8"             | M2     | 15.6000  | 242.25     | 3,779.10    |
| 0261000017 | PLANCHA GALVANIZADA DE e=2mm         | M2     | 116.1090 | 72.92      | 8,466.67    |
| 0265160088 | ABRAZADERA DE Fo.Go. C/DOS OREJAS 3" | UND    | 69.0000  | 5.25       | 362.25      |
| 0272530166 | CODO PVC DE 3" x 45°                 | UND    | 69.0000  | 2.85       | 196.65      |
| 0272530167 | CODO PVC DE 3" x 90°                 | UND    | 23.0000  | 2.85       | 65.55       |
| 0273010028 | TUBO PVC SAL 3"                      | ML     | 276.0000 | 5.65       | 1,559.40    |

9,862,269.19

## EQUIPOS

|            |   |     |             |        |            |
|------------|---|-----|-------------|--------|------------|
| 0337010001 | HERRAMIENTAS MANUALES                           | %MO |             |        | 147,764.36 |
| 0348040003 | CAMION CISTERNA 4x2 (AGUA) 145-165 HP 2,000 GLN | HM  | 167.5489    | 180.00 | 30,158.80  |
| 0348070027 | SOLDADORA ELECT. MONOF. ALTERNA 225 AMP.        | HM  | 854.3070    | 18.60  | 15,890.11  |
| 0348090021 | ANDAMIO METAL Y/O MADERA (ALQUILER)             | HE  | 22,073.5074 | 3.50   | 77,257.28  |
| 0348500004 | CORTADORA DE ACERO (INC. DISCO)                 | HE  | 25,044.7783 | 19.80  | 495,886.61 |
| 0349030001 | COMPACTADOR VIBR. TIPO PLANCHA 4 HP             | HM  | 2,335.3510  | 30.00  | 70,060.53  |
| 0349030007 | RODILLO LISO VIBR AUTOP 101-135HP 10-12T        | HM  | 167.5489    | 240.00 | 40,211.74  |
| 0349040010 | CARGADOR S/LLANTAS 125-155 HP 3 YD3.            | HM  | 127.4147    | 230.00 | 29,305.38  |
| 0349040093 | RETROEXCAVADOR S/LLANTAS 85-90 HP               | HM  | 104.9905    | 160.00 | 16,798.48  |
| 0349040125 | EXCAVADORA S/ORUG 320 - 330 HP                  | HM  | 22.8568     | 380.00 | 8,685.58   |
| 0349070003 | VIBRADOR DE CONCRETO 4 HP 1.50"                 | HM  | 3,100.6246  | 27.97  | 86,724.47  |
| 0349090012 | MOTONIVELADORA DE 125 HP                        | HM  | 167.5489    | 280.00 | 46,913.69  |
| 0349100011 | MEZCLADORA CONCRETO TROMPO 3 HP 9 P3            | HM  | 3,597.8521  | 18.75  | 67,459.84  |
| 0349170006 | CAMION VOLQUETE 330HP DE 15 m3                  | HM  | 509.6587    | 170.00 | 86,641.98  |
| 0349180022 | WINCHE CON MOTOR ELECTRICO                      | HM  | 2,108.0976  | 35.00  | 73,783.42  |
| 0349190003 | NIVEL   | HE  | 52.8780     | 15.00  | 793.17     |
| 0349340002 | CAMION GRUA                                     | HM  | 59.1996     | 140.00 | 8,287.94   |
| 0349340012 | ESCALERA  | HM  | 80.6412     | 4.00   | 322.56     |
| 0349340020 | CAMION GRUA (PLUMA)                             | HM  | 73.7565     | 180.00 | 13,276.17  |

1,316,222.11

Total S/ 16,102,739.45

*Albert Carrasco Viera*  
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 Ingeniero Civil  
 CIP 241018

