

## VALORIZACION N° 02

PERIODO

:01/02/2019-28/02/2019

NOMBRE DE LA OBRA

:"CONSTRUCCIÓN DE CERCO PERIMÉTRICO DE LA SUBESTACIÓN JAÉN, DISTRITO DE JAÉN, PROVINCIA DE JAÉN, REGIÓN CAJAMARCA".

UBICACIÓN

:PLANTA ELECTRICA - JR. UNION 521 - DISTRITO JAEN - PROVINCIA JAEN

PRESUPUESTO BASE

S/. 307,754.61

MONTO DEL CONTRATO

S/. 307,741.90

INICIO DEL PLAZO

:03/01/2019

PLAZO DE EJECUCION

:60 DÍAS CALENDARIOS

TERMINO DEL PLAZO

: 03/03/2019

PERIODO

:01/02/2019-28/02/2019

RESIDENTE

:Ing°. JHONNY ARMANDO OLIVOS MERINO

SUPERVISOR

:Ing° ANDRES ABELARDO DELGADO PÉREZ

| ITEM        | DESCRIPCION  | UND | METRADO  | PRECIO   | PARCIAL   | AVANCE   |               |            |         |               |           |           |               |         | SALDO   |               |         |
|-------------|--|-----|----------|----------|-----------|----------|---------------|------------|---------|---------------|-----------|-----------|---------------|---------|---------|---------------|---------|
|             |  |     |          |          |           | ANTERIOR |               |            | ACTUAL  |               |           | ACUMULADO |               |         |         |               |         |
|             |  |     |          |          |           | Metrado  | Valoriz. \$i. | % Anterior | Metrado | Valoriz. \$i. | % del Mes | Metrado   | Valoriz. \$i. | % Acum. | Metrad. | Valoriz. \$i. | % Acum. |
| 01          | ESTRUCTURAS  |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.01       | OBRAS PROVISIONALES  |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.01.01    | CARTEL DE IDENTIFICACION DE LA OBRA DE 3.60X2.40M          | und | 1.00     | 950.00   | 950.00    | 0.00     | 0.00          | 0.00%      |         | 0.00          | 0.00%     | 0.00      | 0.00          | 0.00%   | 1.00    | 950.00        | 100.00% |
| 01.01.02    | LIMPIEZA PERMANENTE DE LA OBRA                             | GLB | 1.00     | 800.00   | 800.00    | 0.47     | 376.00        | 47.00%     | 0.48    | 384.00        | 48.00%    | 0.95      | 760.00        | 95.00%  | 0.05    | 40.00         | 5.00%   |
| 01.01.03    | OFICINAS PARA RESIDENCIA Y SUPERVISION                     | GLB | 1.00     | 1,600.00 | 1,600.00  | 0.47     | 752.00        | 47.00%     | 0.48    | 768.00        | 48.00%    | 0.95      | 1,520.00      | 95.00%  | 0.05    | 80.00         | 5.00%   |
| 01.02       | TRABAJOS PRELIMINARES                                      |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.02.01    | LIMPIEZA DEL TERRENO MANUAL                                | m2  | 523.59   | 1.19     | 623.07    | 523.59   | 623.07        | 100.00%    | -33.14  | -39.44        | -6.33%    | 490.45    | 583.64        | 93.67%  | 33.14   | 39.44         | 6.33%   |
| 01.02.02    | TRAZO, NIVELES Y REPLANTEO                                 | m2  | 208.56   | 1.87     | 390.01    | 141.32   | 264.27        | 67.76%     | 38.99   | 72.91         | 18.69%    | 180.31    | 337.18        | 86.45%  | 28.25   | 52.83         | 13.55%  |
| 01.03       | MOVIMIENTO DE TIERRAS                                      |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.03.01    | EXCAVACION MANUAL DE ZANJAS PARA CIMIENTOS                 | m3  | 249.70   | 33.12    | 8,270.06  | 169.15   | 5,602.25      | 67.74%     | -6.50   | -215.28       | -2.60%    | 162.65    | 5,386.97      | 65.14%  | 87.05   | 2,883.10      | 34.86%  |
| 01.03.02    | RELLENO COMPACTADO C/EQUIPO MAT/PROPIO                     | m3  | 96.26    | 16.56    | 1,594.07  | 5.33     | 88.26         | 5.54%      |         | 0.00          | 0.00%     | 5.33      | 88.26         | 5.54%   | 90.93   | 1,505.80      | 94.46%  |
| 01.03.03    | ELIMINACION DE MATERIAL EXCEDENTE CON MATERIAL             | m3  | 191.80   | 13.81    | 2,648.76  | 153.00   | 2,112.93      | 79.77%     | -61.53  | -849.73       | -32.08%   | 91.47     | 1,263.20      | 47.69%  | 100.33  | 1,385.56      | 52.31%  |
| 01.04       | OBRAS DE CONCRETO SIMPLE                                   |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.04.01    | CIMIENTO CORRIDO f'C=100KG/CM2 + 30% PG                    | m2  | 126.73   | 252.56   | 32,006.93 | 83.74    | 21,149.37     | 66.08%     |         | 0.00          | 0.00%     | 83.74     | 21,149.37     | 66.08%  | 42.99   | 10,857.55     | 33.92%  |
| 01.04.02    | SOBRECIMENTOS - CONCRETO f'c = 210 kg/cm2                  | m3  | 11.10    | 454.80   | 5,048.28  | 7.30     | 3,320.04      | 65.77%     |         | 0.00          | 0.00%     | 7.30      | 3,320.04      | 65.77%  | 3.80    | 1,728.24      | 34.23%  |
| 01.04.03    | SOBRECIMENTOS - ENCOFRADO Y DESENCOFRADO NORMAL            | m2  | 160.51   | 63.82    | 10,243.75 | 112.38   | 7,172.09      | 70.01%     |         | 0.00          | 0.00%     | 112.38    | 7,172.09      | 70.01%  | 48.13   | 3,071.66      | 29.99%  |
| 01.05       | OBRAS DE CONCRETO ARMADO                                   |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.05.01    | SOBRECIMIENTO REFORZADO                                    |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.05.01.01 | SOBRECIMENTOS REFORZADO - CONCRETO f'c = 210 kg/cm2        | m3  | 19.29    | 454.80   | 8,773.09  | 3.79     | 1,723.69      | 19.65%     |         | 0.00          | 0.00%     | 3.79      | 1,723.69      | 19.65%  | 15.50   | 7,049.40      | 80.35%  |
| 01.05.01.02 | SOBRECIMENTOS REFORZADO - ENCOFRADO Y DESENCOFRADO NORMAL  | m2  | 296.72   | 58.33    | 17,307.68 | 58.27    | 3,398.89      | 19.64%     | -0.01   | -0.58         | 0.00%     | 58.26     | 3,398.31      | 19.63%  | 238.46  | 13,909.37     | 80.37%  |
| 01.05.01.03 | SOBRECIMENTOS REFORZADOS - ACERO fy=4,200 kg/cm2           | kg  | 859.85   | 4.77     | 4,101.48  | 157.97   | 753.52        | 18.37%     | 12.29   | 58.62         | 1.43%     | 170.26    | 812.14        | 19.80%  | 689.59  | 3,289.34      | 80.20%  |
| 01.05.02    | COLUMNAS   |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.05.02.01 | COLUMNAS DE ARRIOSTRES: CONCRETO f'c=210 kg/cm2            | m3  | 11.19    | 476.72   | 5,334.50  | 0.62     | 295.57        | 5.54%      | 6.89    | 3,284.60      | 61.57%    | 7.51      | 3,580.17      | 67.11%  | 3.68    | 1,754.33      | 32.89%  |
| 01.05.02.02 | COLUMNAS DE ARRIOSTRES - ENCOFRADO Y DESENCOFRADO NORMAL   | m2  | 192.02   | 65.74    | 12,623.39 | 9.49     | 623.87        | 4.94%      | 91.45   | 6,011.92      | 47.63%    | 100.94    | 6,635.80      | 52.57%  | 91.08   | 5,987.60      | 47.43%  |
| 01.05.02.03 | COLUMNAS DE ARRIOSTRES - ACERO DE REFUERZO FY= 4200 kg/cm2 | kg  | 3,200.33 | 4.77     | 15,265.57 | 1806.67  | 8,617.82      | 56.45%     | 186.02  | 887.32        | 5.81%     | 1992.69   | 9,505.13      | 62.27%  | 1207.64 | 5,760.44      | 37.73%  |
| 01.05.03    | VIGAS  |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 01.05.03.01 | VIGA DE ARRIOSTRE - CONCRETO f'c=210 kg/cm2                | m3  | 10.36    | 443.20   | 4,591.55  | 0.00     | 0.00          | 0.00%      | 5.29    | 2,344.53      | 51.06%    | 5.29      | 2,344.53      | 51.06%  | 5.07    | 2,247.02      | 48.94%  |
| 01.05.03.02 | VIGA DE ARRIOSTRE - ENCOFRADO Y DESENCOFRADO               | m2  | 159.42   | 75.20    | 11,988.38 | 0.00     | 0.00          | 0.00%      | 81.45   | 6,125.04      | 51.09%    | 81.45     | 6,125.04      | 51.09%  | 77.97   | 5,863.34      | 48.91%  |
| 01.05.03.03 | VIGA DE ARRIOSTRE: ACERO DE REFUERZO FY= 4200 kg/cm2       | kg  | 1,019.15 | 4.77     | 4,861.35  | 0.00     | 0.00          | 0.00%      | 495.33  | 2,362.72      | 48.60%    | 495.33    | 2,362.72      | 48.60%  | 523.82  | 2,498.62      | 51.40%  |
| 02          | ARQUITECTURA   |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 02.01       | MUROS, TABIQUES Y ALBAÑILERIA                              |     |          |          |           |          |               |            |         |               |           |           |               |         |         |               |         |
| 02.01.01    | MUROS DE SOGA CON LADRILLO KING KONG 9x13x24 cm.           | m2  | 694.50   | 29.77    | 20,675.27 | 111.25   | 3,311.91      | 16.02%     | 247.58  | 7,370.46      | 35.65%    | 358.83    | 10,682.37     | 51.67%  | 335.67  | 9,992.90      | 48.33%  |
| 02.01.02    | REFUERZO HORIZONTAL EN MUROS CON ALAMBRE #8                | kg  | 50.33    | 42.24    | 2,125.94  | 9.60     | 405.50        | 19.07%     | 11.25   | 475.20        | 22.35%    | 20.85     | 880.70        | 41.43%  | 29.48   | 1,245.24      | 58.57%  |

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SUPERVISOR

:Ing° ANDRES ABELARDO DELGADO PÉREZ

| INTEM    | DESCRIPCION   | UND | METRADO | PRECIO    | PARCIAL    | AVANCE   |               |            |         |               |           |           |               |         | SALDO   |               |         |
|----------|---|-----|---------|-----------|------------|----------|---------------|------------|---------|---------------|-----------|-----------|---------------|---------|---------|---------------|---------|
|          |   |     |         |           |            | ANTERIOR |               |            | ACTUAL  |               |           | ACUMULADO |               |         |         |               |         |
|          |   |     |         |           |            | Metrado  | Valoriz. \$/. | % Anterior | Metrado | Valoriz. \$/. | % del Mes | Metrado   | Valoriz. \$/. | % Acum. | Metrad. | Valoriz. \$/. | % Acum. |
| 02.02    | REVOQUES ENLUCIDOS Y MOLDURAS   |     |         |           |            |          |               |            |         |               |           |           |               |         |         |               |         |
| 02.02.01 | TARRAJEO DE SUPERFICIES DE COLUMNAS DE ARRIOSTRE, E=1.5cm             | m2  | 192.02  | 30.74     | 5,902.69   | 0.00     | 0.00          | 0.00%      | 37.75   | 1,160.44      | 19.66%    | 37.75     | 1,160.44      | 19.66%  | 154.27  | 4,742.26      | 80.34%  |
| 02.02.02 | TARRAJEO DE SUPERFICIES DE VIGAS DE ARRIOSTRE, E=1.5cm                | m2  | 159.42  | 34.94     | 5,570.13   | 0.00     | 0.00          | 0.00%      | 28.26   | 987.40        | 17.73%    | 28.26     | 987.40        | 17.73%  | 131.16  | 4,582.73      | 82.27%  |
| 02.02.03 | TARRAJEO DE SUPERFICIES DE SOBRECIMIENTO, E=1.5cm                     | m2  | 247.10  | 28.57     | 7,059.65   | 0.00     | 0.00          | 0.00%      | 26.46   | 755.96        | 10.71%    | 26.46     | 755.96        | 10.71%  | 220.64  | 6,303.68      | 89.29%  |
| 02.03    | PINTURA   |     |         |           |            |          |               |            |         |               |           |           |               |         |         |               |         |
| 02.03.01 | PINTURA LATEX 2 MANOS, EN COLUMNAS DE ARRIOSTRES                      | m2  | 192.02  | 6.97      | 1,338.38   | 0.00     | 0.00          | 0.00%      |         | 0.00          | 0.00%     | 0.00      | 0.00          | 0.00%   | 192.02  | 1,338.38      | 100.00% |
| 02.03.02 | PINTURA LATEX 2 MANOS, EN VIGAS DE ARRIOSTRE                          | m2  | 159.42  | 10.55     | 1,681.88   | 0.00     | 0.00          | 0.00%      |         | 0.00          | 0.00%     | 0.00      | 0.00          | 0.00%   | 159.42  | 1,681.88      | 100.00% |
| 02.03.03 | PINTURA LATEX 2 MANOS, EN SOBRECIMIENTOS                              | m2  | 247.10  | 8.76      | 2,164.60   | 0.00     | 0.00          | 0.00%      |         | 0.00          | 0.00%     | 0.00      | 0.00          | 0.00%   | 247.10  | 2,164.60      | 100.00% |
| 03       | OTROS   |     |         |           |            |          |               |            |         |               |           |           |               |         |         |               |         |
| 03.01    | PLAN DE MONITOREO ARQUEOLOGICO, INCLUYE PAGOS A ENTIDADES COMPETENTES | GLB | 1.00    | 13,000.00 | 13,000.00  | 0.00     | 0.00          | 0.00%      |         | 0.00          | 0.00%     | 0.00      | 0.00          | 0.00%   | 1.00    | 13,000.00     | 100.00% |
| 03.02    | PLAN DE MONITOREO AMBIENTAL   | GLB | 1.00    | 12,380.00 | 12,380.00  | 0.00     | 0.00          |            |         | 0.00          | 0.00%     | 0.00      | 0.00          | 0.00%   | 1.00    | 12,380.00     | 100.00% |
|          | COSTO DIRECTO   |     |         |           | 220,920.46 |          | 60,591.06     |            |         | 31,944.09     |           |           | 92,535.15     |         |         | 128,385.31    |         |
|          | GASTOS GENERALES (13.050728%)   |     |         |           | 28,831.73  |          | 7,907.57      |            |         | 4,168.94      |           |           | 12,076.51     |         |         | 16,755.22     |         |
|          | UTILIDAD (5.00%)  |     |         |           | 11,046.02  |          | 3,029.55      |            |         | 1,597.20      |           |           | 4,626.76      |         |         | 6,419.27      |         |
|          | SUB-TOTAL   |     |         |           | 260,798.22 |          | 71,528.19     |            |         | 37,710.24     |           |           | 109,238.42    |         |         | 151,559.79    |         |
|          | I.G.V.(18.000%)   |     |         |           | 46,943.68  |          | 12,875.07     |            |         | 6,787.84      |           |           | 19,662.92     |         |         | 27,280.76     |         |
|          | TOTAL DEL PRESUPUESTO   |     |         |           | 307,741.90 |          | 84,403.27     | 27.43%     |         | 44,498.09     | 14.46%    |           | 128,901.35    | 41.89%  |         | 178,840.57    | 58.11%  |