



Anexo 05.04. Costos de producción total propuestos desagregados por: mano de obra, materiales, equipos y herramientas (Fuente elaboración propia)

Item	Descripción	Costo de mano de obra recalculado (propuesto)				Costo de materiales recalculado (propuesto)				Costo de equip. y herram. recalculado (propuesto)				Costo total de las partidas recalculadas (propuestos)											
		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado									
		(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%								
01.00.00	Obras provisionales			S/.	-			S/.	-			S/.	-			S/.	-								
01.07.00	Acceso a plataforma para trabajos mecánicos de transportes de la U.N.A.			S/.	-			S/.	-			S/.	-			S/.	-								
01.08.00	Estructuras provisionales de madera (puente de 20m x 1.25m)	S/.	6,553.56	0.11%	S/.	6,553.56	0.11%	S/.	15,454.92	0.09%	S/.	15,454.92	0.09%	S/.	612.56	0.04%	S/.	612.56	0.04%	S/.	22,621.04	0.08%	S/.	22,621.04	0.08%
01.09.00	Estructuras provisionales de madera para izaje de columnas	S/.	9,892.57	0.17%	S/.	16,446.13	0.27%	S/.	-	0.00%	S/.	15,454.92	0.09%	S/.	924.73	0.06%	S/.	1,537.29	0.10%	S/.	21,383.40	0.07%	S/.	44,004.44	0.15%
01.10.00	Estructura provisional de madera para encofrado de placa y columna inclinada - 2do nivel (a=50m2 x h=7.00m)	S/.	67,761.98	1.13%	S/.	84,208.11	1.41%	S/.	101,963.32	0.58%	S/.	117,418.24	0.67%	S/.	2,033.04	0.13%	S/.	3,570.33	0.22%	S/.	171,758.34	0.58%	S/.	215,762.78	0.73%
01.11.00	Estructura provisional de madera para de placa y columna inclinada en el 3er nivel (a=48m2 x h=5.35m)	S/.	74,368.93	1.24%	S/.	158,577.04	2.65%	S/.	88,337.48	0.50%	S/.	205,755.72	1.17%	S/.	2,231.27	0.14%	S/.	5,801.60	0.36%	S/.	164,937.68	0.56%	S/.	380,700.46	1.29%
01.12.00	Estructura provisional de madera para el apoyo de encofrado de viga y graderío en volado exterior en el 3er nivel	S/.	104,742.29	1.75%	S/.	263,319.33	4.40%	S/.	116,915.20	0.67%	S/.	322,670.92	1.84%	S/.	3,141.40	0.20%	S/.	8,943.00	0.56%	S/.	224,798.88	0.76%	S/.	605,499.34	2.05%
01.13.00	Estructura provisional de madera para el apoyo de encofrado de viga y graderío entre ejes B y C en el 3er nivel	S/.	24,022.83	0.40%	S/.	287,342.16	4.80%	S/.	-	0.00%	S/.	322,670.92	1.84%	S/.	720.34	0.05%	S/.	9,663.34	0.61%	S/.	61,846.51	0.21%	S/.	667,345.85	2.26%
01.14.00	Estructura provisional de madera para encofrado de placa y columna inclinada en el nivel cobertura (a=42m2 x h=3.75m)	S/.	65,030.62	1.09%	S/.	352,372.78	5.89%	S/.	80,983.62	0.46%	S/.	403,654.54	2.31%	S/.	1,950.91	0.12%	S/.	11,614.25	0.73%	S/.	147,965.15	0.50%	S/.	815,311.00	2.76%
04.00.00	Seguridad y salud			S/.	352,372.78			S/.	403,654.54			S/.	11,614.25			S/.	815,311.00								
04.03.00	Equipos de protección colectiva	S/.	-	0.00%	S/.	352,372.78	5.89%	S/.	9,000.00	0.05%	S/.	412,654.54	2.36%	S/.	-	0.00%	S/.	11,614.25	0.73%	S/.	9,000.00	0.03%	S/.	824,311.00	2.79%
04.06.00	Equipos de protección personal completos	S/.	-	0.00%	S/.	352,372.78	5.89%	S/.	281,193.50	1.61%	S/.	693,848.04	3.96%	S/.	-	0.00%	S/.	11,614.25	0.73%	S/.	281,193.50	0.95%	S/.	1,105,504.50	3.74%
05.00.00	Movimiento de tierras			S/.	352,372.78			S/.	693,848.04			S/.	11,614.25			S/.	1,105,504.50								
05.01.00	Excavación con maquinaria para zapatas y plateas (terreno normal)	S/.	16,907.69	0.28%	S/.	369,280.47	6.17%	S/.	-	0.00%	S/.	693,848.04	3.96%	S/.	207,800.91	13.04%	S/.	219,415.15	13.77%	S/.	224,708.59	0.76%	S/.	1,330,213.09	4.51%
05.03.00	Relleno y compactado de fundaciones con material de préstamo	S/.	620,199.29	10.37%	S/.	989,479.75	16.54%	S/.	552,747.88	3.16%	S/.	1,246,595.91	7.12%	S/.	277,889.70	17.44%	S/.	497,304.85	31.20%	S/.	1,450,836.86	4.91%	S/.	2,781,049.95	9.42%
05.05.00	Eliminación de material excedente de excavaciones	S/.	39,002.98	0.65%	S/.	1,028,482.73	17.19%	S/.	-	0.00%	S/.	1,246,595.91	7.12%	S/.	266,470.77	16.72%	S/.	763,775.62	47.92%	S/.	305,473.75	1.03%	S/.	3,086,523.70	10.45%
05.06.00	Corte con maquinaria en terreno normal	S/.	4,137.51	0.07%	S/.	1,032,620.24	17.26%	S/.	-	0.00%	S/.	1,246,595.91	7.12%	S/.	17,473.95	1.10%	S/.	781,249.57	49.02%	S/.	21,611.46	0.07%	S/.	3,108,135.16	10.53%
05.07.00	Acarreo de material proveniente de excavaciones de corte con maquinaria d=50m.	S/.	4,820.40	0.08%	S/.	1,037,440.64	17.34%	S/.	-	0.00%	S/.	1,246,595.91	7.12%	S/.	15,113.96	0.95%	S/.	796,363.53	49.97%	S/.	19,934.36	0.07%	S/.	3,128,069.52	10.59%

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Item	Descripción	Costo de mano de obra recalculado (propuesto)				Costo de materiales recalculado (propuesto)				Costo de equip. y herram. recalculado (propuesto)				Costo total de las partidas recalculadas (propuestos)											
		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado									
		(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%								
05.09.00	Perfilado y acarreo (distancia 30m) De paredes y fondo de excavación de cimentaciones (material saturado) para una altura promedio de 3.50m	S/.	187,596.34	3.14%	S/.	1,225,036.99	20.47%	S/.	-	0.00%	S/.	1,246,595.91	7.12%	S/.	5,625.16	0.35%	S/.	801,988.69	50.32%	S/.	193,221.50	0.65%	S/.	3,321,291.02	11.25%
05.10.00	Eliminación de agua con electrobomba en excavación de cimentaciones	S/.	51,000.00	0.85%	S/.	1,276,036.99	21.33%	S/.	13,500.00	0.08%	S/.	1,260,095.91	7.20%	S/.	61,500.00	3.86%	S/.	863,488.69	54.18%	S/.	126,000.00	0.43%	S/.	3,447,291.02	11.68%
05.11.00	Excavación manual de cimentaciones (terreno saturado)	S/.	57,605.07	0.96%	S/.	1,333,642.05	22.29%	S/.	-	0.00%	S/.	1,260,095.91	7.20%	S/.	1,732.59	0.11%	S/.	865,221.29	54.29%	S/.	59,337.66	0.20%	S/.	3,506,628.68	11.88%
06.00.00	Obras de concreto simple				S/.	1,333,642.05					S/.	1,260,095.91					S/.	865,221.29					S/.	3,506,628.68	
06.05.00	Sub zapatas				S/.	1,333,642.05					S/.	1,260,095.91					S/.	865,221.29					S/.	3,506,628.68	
06.05.02	Sub zapatas: mezcla 1:12+30% p.m. (máximo de 6")	S/.	116,272.49	1.94%	S/.	1,449,914.54	24.23%	S/.	-	0.00%	S/.	1,260,095.91	7.20%	S/.	9,433.52	0.59%	S/.	874,654.81	54.88%	S/.	380,782.50	1.29%	S/.	3,887,411.18	13.17%
06.05.03	Sub zapatas: mezcla 1:8+30% p.m. (máximo de 6")	S/.	368,219.00	6.15%	S/.	1,818,133.54	30.39%	S/.	1,061,766.06	6.06%	S/.	2,321,861.97	13.26%	S/.	29,874.67	1.87%	S/.	904,529.48	56.75%	S/.	1,459,859.72	4.94%	S/.	5,347,270.90	18.11%
06.05.04	Sub zapatas: mezcla 1:5+30% p.m. (máximo de 6")	S/.	136,104.64	2.27%	S/.	1,954,238.18	32.66%	S/.	556,243.66	3.18%	S/.	2,878,105.63	16.44%	S/.	11,042.56	0.69%	S/.	915,572.04	57.45%	S/.	703,390.85	2.38%	S/.	6,050,661.76	20.49%
07.00.00	Obras de concreto armado				S/.	1,954,238.18					S/.	2,878,105.63					S/.	915,572.04					S/.	6,050,661.76	
07.01.00	Zapatas aisladas				S/.	1,954,238.18					S/.	2,878,105.63					S/.	915,572.04					S/.	6,050,661.76	
07.01.01	Zapatas aisladas: concreto f'c = 210 kg/cm2	S/.	13,719.05	0.23%	S/.	1,967,957.22	32.89%	S/.	1,052,165.06	6.01%	S/.	3,930,270.69	22.44%	S/.	3,771.47	0.24%	S/.	919,343.51	57.68%	S/.	1,069,655.58	3.62%	S/.	7,120,317.34	24.12%
07.04.00	Muros de contención				S/.	1,967,957.22					S/.	3,930,270.69					S/.	919,343.51					S/.	7,120,317.34	
07.04.02	Muro de contención: encofrado y desencofrado	S/.	107,005.12	1.79%	S/.	2,074,962.35	34.68%	S/.	-	0.00%	S/.	3,930,270.69	22.44%	S/.	3,226.11	0.20%	S/.	922,569.62	57.89%	S/.	228,816.42	0.77%	S/.	7,349,133.76	24.89%
07.05.00	Placas de concreto				S/.	2,074,962.35					S/.	3,930,270.69					S/.	922,569.62					S/.	7,349,133.76	
07.05.01	Placas: concreto premezclado f'c = 210 kg/cm2	S/.	2,131.26	0.04%	S/.	2,077,093.61	34.71%	S/.	52,743.27	0.30%	S/.	3,983,013.96	22.75%	S/.	665.22	0.04%	S/.	923,234.84	57.93%	S/.	55,539.74	0.19%	S/.	7,404,673.50	25.08%
07.05.02	Placas: encofrado y desencofrado	S/.	115,190.52	1.93%	S/.	2,192,284.13	36.64%	S/.	114,263.11	0.65%	S/.	4,097,277.07	23.40%	S/.	3,453.80	0.22%	S/.	926,688.64	58.14%	S/.	232,907.43	0.79%	S/.	7,637,580.93	25.87%
07.05.04	Placas: concreto premezclado f'c = 280 kg/cm2	S/.	4,692.19	0.08%	S/.	2,196,976.31	36.72%	S/.	167,513.40	0.96%	S/.	4,264,790.47	24.35%	S/.	1,460.85	0.09%	S/.	928,149.49	58.24%	S/.	173,666.44	0.59%	S/.	7,811,247.36	26.46%
07.06.00	Columnas rectas				S/.	2,196,976.31					S/.	4,264,790.47					S/.	928,149.49					S/.	7,811,247.36	
07.06.02	Columnas rectas: encofrado y desencofrado	S/.	473,385.29	7.91%	S/.	2,670,361.60	44.63%	S/.	-	0.00%	S/.	4,264,790.47	24.35%	S/.	14,193.67	0.89%	S/.	942,343.16	59.13%	S/.	898,406.94	3.04%	S/.	8,709,654.31	29.50%

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Item	Descripción	Costo de mano de obra recalculado (propuesto)				Costo de materiales recalculado (propuesto)				Costo de equip. y herram. recalculado (propuesto)				Costo total de las partidas recalculadas (propuestos)											
		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado									
		(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%								
07.06.03	Columnas: acero grado 60 fy = 4200 kg/cm2	S/.	444,025.03	7.42%	S/.	3,114,386.63	52.05%	S/.	2,413,179.53	13.78%	S/.	6,677,969.99	38.13%	S/.	38,610.87	2.42%	S/.	980,954.03	61.55%	S/.	2,895,815.43	9.81%	S/.	11,605,469.74	39.31%
07.06.04	Columnas: concreto premezclado f'c = 280 kg/cm	S/.	33,747.89	0.56%	S/.	3,148,134.52	52.61%	S/.	1,129,336.63	6.45%	S/.	7,807,306.63	44.58%	S/.	10,544.54	0.66%	S/.	991,498.57	62.21%	S/.	1,173,629.07	3.97%	S/.	12,779,098.80	43.28%
07.07.00	Vigas rectas				S/.	3,148,134.52					S/.	7,807,306.63					S/.	991,498.57					S/.	12,779,098.80	
07.07.01	Vigas rectas: concreto premezclado f'c = 210 kg/cm2	S/.	23,952.51	0.40%	S/.	3,172,087.03	53.01%	S/.	855,118.66	4.88%	S/.	8,662,425.29	49.47%	S/.	7,473.56	0.47%	S/.	998,972.13	62.68%	S/.	886,544.73	3.00%	S/.	13,665,643.53	46.28%
07.07.02	Vigas rectas: encofrado y desencofrado	S/.	718,731.55	12.01%	S/.	3,890,818.59	65.03%	S/.	-	0.00%	S/.	8,662,425.29	49.47%	S/.	67,243.90	4.22%	S/.	1,066,216.03	66.90%	S/.	1,569,157.40	5.31%	S/.	15,234,800.93	51.60%
07.07.03	Vigas rectas: acero grado 60 fy = 4200 kg/cm2	S/.	326,432.11	5.46%	S/.	4,217,250.70	70.48%	S/.	1,282,073.95	7.32%	S/.	9,944,499.24	56.79%	S/.	28,385.40	1.78%	S/.	1,094,601.43	68.68%	S/.	1,636,891.47	5.54%	S/.	16,871,692.40	57.14%
07.07.04	Vigas rectas: concreto premezclado f'c = 280 kg/cm2	S/.	13,241.13	0.22%	S/.	4,230,491.83	70.70%	S/.	441,997.55	2.52%	S/.	10,386,496.79	59.31%	S/.	4,137.20	0.26%	S/.	1,098,738.63	68.94%	S/.	459,375.87	1.56%	S/.	17,331,068.27	58.70%
07.08.00	Losa aligerada				S/.	4,230,491.83					S/.	10,386,496.79					S/.	1,098,738.63					S/.	17,331,068.27	
07.08.02	Losa aligerada horizontal: encofrado y desencofrado	S/.	110,322.32	1.84%	S/.	4,340,814.16	72.55%	S/.	141,317.64	0.81%	S/.	10,527,814.43	60.12%	S/.	10,331.77	0.65%	S/.	1,109,070.40	69.59%	S/.	261,971.74	0.89%	S/.	17,593,040.01	59.59%
07.09.00	Graderíos				S/.	4,340,814.16					S/.	10,527,814.43					S/.	1,109,070.40					S/.	17,593,040.01	
07.09.01	Graderíos: concreto premezclado f'c = 210 kg/cm2	S/.	25,936.64	0.43%	S/.	4,366,750.79	72.98%	S/.	-	0.00%	S/.	10,527,814.43	60.12%	S/.	8,476.97	0.53%	S/.	1,117,547.37	70.12%	S/.	921,677.79	3.12%	S/.	18,514,717.80	62.71%
07.09.02	Graderíos: encofrado y desencofrado	S/.	859,990.07	14.37%	S/.	5,226,740.86	87.35%	S/.	954,361.75	5.45%	S/.	11,482,176.18	65.57%	S/.	80,451.34	5.05%	S/.	1,197,998.72	75.17%	S/.	1,894,803.16	6.42%	S/.	20,409,520.96	69.12%
07.09.03	Graderíos: acero grado fy = 4200 kg/cm2	S/.	227,728.48	3.81%	S/.	5,454,469.35	91.16%	S/.	917,711.80	5.24%	S/.	12,399,887.98	70.81%	S/.	20,393.60	1.28%	S/.	1,218,392.31	76.45%	S/.	1,165,833.88	3.95%	S/.	21,575,354.85	73.07%
07.10.00	Escaleras				S/.	5,454,469.35					S/.	12,399,887.98					S/.	1,218,392.31					S/.	21,575,354.85	
07.10.02	Escaleras: encofrado y desencofrado	S/.	300,931.57	5.03%	S/.	5,755,400.92	96.19%	S/.	258,964.72	1.48%	S/.	12,658,852.70	72.29%	S/.	9,014.22	0.57%	S/.	1,227,406.53	77.01%	S/.	568,910.50	1.93%	S/.	22,144,265.35	75.00%
07.10.03	Escaleras: acero fy = 4200 kg/cm2	S/.	42,728.75	0.71%	S/.	5,798,129.66	96.90%	S/.	-	0.00%	S/.	12,658,852.70	72.29%	S/.	3,715.54	0.23%	S/.	1,231,122.07	77.25%	S/.	213,643.73	0.72%	S/.	22,357,909.08	75.72%
07.10.04	Escaleras: concreto premezclado f'c = 210 kg/cm2	S/.	8,097.51	0.14%	S/.	5,806,227.18	97.04%	S/.	236,587.32	1.35%	S/.	12,895,440.03	73.64%	S/.	2,530.07	0.16%	S/.	1,233,652.14	77.40%	S/.	247,214.91	0.84%	S/.	22,605,123.99	76.56%
07.11.00	Columnas de arriostre				S/.	5,806,227.18					S/.	12,895,440.03					S/.	1,233,652.14					S/.	22,605,123.99	
07.11.01	Columnas de arriostre: concreto f'c = 175 kg/cm2	S/.	59,345.02	0.99%	S/.	5,865,572.19	98.03%	S/.	67,126.71	0.38%	S/.	12,962,566.73	74.02%	S/.	10,455.78	0.66%	S/.	1,244,107.92	78.06%	S/.	136,927.50	0.46%	S/.	22,742,051.49	77.02%

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		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado									
		(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%								
07.15.00	Rampa			S/.	5,865,572.19	98.03%			S/.	12,962,566.73	74.02%			S/.	1,244,107.92	78.06%	S/.	22,742,051.49	77.02%						
07.15.02	Rampa: encofrado y desencofrado	S/.	14,294.86	0.24%	S/.	5,879,867.06	98.27%	S/.	10,702.31	0.06%	S/.	12,973,269.05	74.08%	S/.	428.39	0.03%	S/.	1,244,536.31	78.09%	S/.	25,425.57	0.09%	S/.	22,767,477.06	77.11%
08.00.00	Estructuras metálicas y coberturas			S/.	5,879,867.06				S/.	12,973,269.05				S/.	1,244,536.31			S/.	22,767,477.06						
08.10.00	Fabricación de armadura TM-01, 02 y 03	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	-	0.00%	S/.	12,973,269.05	74.08%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	907,200.00	3.07%	S/.	23,674,677.06	80.18%
08.11.00	Montaje armadura TM-01, 02 y 03	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	100,800.00	0.58%	S/.	13,074,069.05	74.66%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	100,800.00	0.34%	S/.	23,775,477.06	80.53%
08.12.00	Fabricación de apoyos	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	69,843.76	0.40%	S/.	13,143,912.81	75.06%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	69,843.76	0.24%	S/.	23,845,320.82	80.76%
08.13.00	Montaje de apoyos	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	7,760.48	0.04%	S/.	13,151,673.29	75.10%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	7,760.48	0.03%	S/.	23,853,081.30	80.79%
08.14.00	Fabricación de armaduras transversales TM-04 y TM-05	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	-	0.00%	S/.	13,151,673.29	75.10%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	1,347,275.78	4.56%	S/.	25,200,357.07	85.35%
08.15.00	Montaje de armaduras transversales TM-04 y TM-05	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	183,719.42	1.05%	S/.	13,335,392.71	76.15%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	183,719.42	0.62%	S/.	25,384,076.50	85.97%
08.16.00	Rigidizante longitudinal canal "U"	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	524,541.60	3.00%	S/.	13,859,934.31	79.15%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	524,541.60	1.78%	S/.	25,908,618.10	87.75%
08.17.00	Cobertura de planchas de acero plegada en frío tipo T	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	438,600.00	2.50%	S/.	14,298,534.31	81.65%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	438,600.00	1.49%	S/.	26,347,218.10	89.24%
08.18.00	Canaleta para aguas pluviales	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	-	0.00%	S/.	14,298,534.31	81.65%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	42,675.00	0.14%	S/.	26,389,893.10	89.38%
08.19.00	Arriostramiento lateral de armaduras transversales	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	203,144.20	1.16%	S/.	14,501,678.51	82.81%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	203,144.20	0.69%	S/.	26,593,037.30	90.07%
08.20.00	Rigidizante lateral y longitudinal de la armadura borde	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	82,500.00	0.47%	S/.	14,584,178.51	83.28%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	82,500.00	0.28%	S/.	26,675,537.30	90.35%
08.21.00	Fabricación y montaje de armadura borde "Arm. B" y "Arm.s"	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	77,040.00	0.44%	S/.	14,661,218.51	83.72%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	77,040.00	0.26%	S/.	26,752,577.30	90.61%
09.00.00	Varios			S/.	5,879,867.06				S/.	14,661,218.51				S/.	1,244,536.31			S/.	26,752,577.30						
09.02.00	Transporte interno de materiales	S/.	-	0.00%	S/.	5,879,867.06	98.27%	S/.	-	0.00%	S/.	14,661,218.51	83.72%	S/.	-	0.00%	S/.	1,244,536.31	78.09%	S/.	136,719.09	0.46%	S/.	26,889,296.39	91.07%
09.03.00	Transporte interno de materiales con maquinaria (distancia Promedio=100m.)	S/.	21,717.77	0.36%	S/.	5,901,584.82	98.63%	S/.	25,739.58	0.15%	S/.	14,686,958.09	83.87%	S/.	139,422.71	8.75%	S/.	1,383,959.02	86.83%	S/.	186,880.06	0.63%	S/.	27,076,176.44	91.70%
10.00.00	Muros y tabiques de albañilería			S/.	5,901,584.82				S/.	14,686,958.09				S/.	1,383,959.02			S/.	27,076,176.44						

Anexo 05.04. Costos de producción total propuestos desagregados por: mano de obra, materiales, equipos y herramientas (Fuente elaboración propia)

Item	Descripción	Costo de mano de obra recalculado (propuesto)				Costo de materiales recalculado (propuesto)				Costo de equip. y herram. recalculado (propuesto)				Costo total de las partidas recalculadas (propuestos)											
		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado									
		(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%								
10.01.00	Muro de ladrillo King Kong mecanizado (cabeza) j=2 cm	S/.	288,443.54	4.82%	S/.	6,190,028.36	103.45%	S/.	607,064.32	3.47%	S/.	15,294,022.41	87.34%	S/.	8,686.25	0.55%	S/.	1,392,645.27	87.38%	S/.	904,194.11	3.06%	S/.	27,980,370.56	94.77%
10.02.00	Muro de ladrillo King Kong mecanizado (soga) j=2 cm	S/.	50,662.57	0.85%	S/.	6,240,690.93	104.30%	S/.	92,483.36	0.53%	S/.	15,386,505.77	87.87%	S/.	1,519.68	0.10%	S/.	1,394,164.95	87.47%	S/.	144,665.61	0.49%	S/.	28,125,036.17	95.26%
11.00.00	Revoques, enlucidos y molduras				S/.	6,240,690.93		S/.	15,386,505.77		S/.	15,386,505.77		S/.	1,394,164.95		S/.	1,394,164.95		S/.	28,125,036.17		S/.	28,125,036.17	
11.02.00	Tarrajeo en muros interiores (mezcla c:a 1:4, e=2cm)	S/.	232,607.92	3.89%	S/.	6,473,298.85	108.19%	S/.	-	0.00%	S/.	15,386,505.77	87.87%	S/.	6,920.85	0.43%	S/.	1,401,085.80	87.91%	S/.	323,254.11	1.09%	S/.	28,448,290.28	96.35%
11.03.00	Tarrajeo en muros exteriores (mezcla c:a 1:4, e=2cm)	S/.	63,161.12	1.06%	S/.	6,536,459.96	109.24%	S/.	17,429.79	0.10%	S/.	15,403,935.56	87.96%	S/.	4,372.02	0.27%	S/.	1,405,457.82	88.18%	S/.	84,962.92	0.29%	S/.	28,533,253.20	96.64%
11.04.00	Tarrajeo exterior en parapetos de tribunas en graderíos exteriores y peldaños"	S/.	377,564.64	6.31%	S/.	6,914,024.61	115.55%	S/.	104,191.81	0.59%	S/.	15,508,127.37	88.56%	S/.	20,211.12	1.27%	S/.	1,425,668.94	89.45%	S/.	501,967.58	1.70%	S/.	29,035,220.78	98.34%
11.06.00	Tarrajeo de columnas y placas				S/.	6,914,024.61		S/.	15,508,127.37		S/.	15,508,127.37		S/.	1,425,668.94		S/.	1,425,668.94		S/.	29,035,220.78		S/.	29,035,220.78	
11.06.01	Columnas y placas rectas: Tarrajeo de superficies (mezcla c:a 1:5, e=2cm)	S/.	171,929.54	2.87%	S/.	7,085,954.14	118.43%	S/.	37,284.87	0.21%	S/.	15,545,412.24	88.77%	S/.	39,118.55	2.45%	S/.	1,464,787.49	91.91%	S/.	248,332.96	0.84%	S/.	29,283,553.74	99.18%
11.06.03	Placas inclinadas: Tarrajeo de superficie (mezcla c:a 1:5 e=1.5 cms)	S/.	86,122.82	1.44%	S/.	7,172,076.97	119.87%	S/.	-	0.00%	S/.	15,545,412.24	88.77%	S/.	4,620.64	0.29%	S/.	1,469,408.14	92.20%	S/.	108,570.21	0.37%	S/.	29,392,123.94	99.55%
11.07.00	Tarrajeo de vigas				S/.	7,172,076.97		S/.	15,545,412.24		S/.	15,545,412.24		S/.	1,469,408.14		S/.	1,469,408.14		S/.	29,392,123.94		S/.	29,392,123.94	
11.07.01	Vigas rectas: Tarrajeo de superficies (mezcla c:a 1:5, e=2cm)	S/.	130,982.10	2.19%	S/.	7,303,059.07	122.06%	S/.	25,036.08	0.14%	S/.	15,570,448.33	88.92%	S/.	3,920.06	0.25%	S/.	1,473,328.19	92.44%	S/.	159,938.24	0.54%	S/.	29,552,062.19	100.09%
11.07.03	Vigas inclinadas: Tarrajeo de superficies (mezcla c:a 1:5, e=2cm)	S/.	72,321.57	1.21%	S/.	7,375,380.64	123.26%	S/.	12,569.68	0.07%	S/.	15,583,018.01	88.99%	S/.	2,178.04	0.14%	S/.	1,475,506.24	92.58%	S/.	87,069.30	0.29%	S/.	29,639,131.48	100.38%
11.10.00	Juntas				S/.	7,375,380.64		S/.	15,583,018.01		S/.	15,583,018.01		S/.	1,475,506.24		S/.	1,475,506.24		S/.	29,639,131.48		S/.	29,639,131.48	
11.10.01	Sellado de juntas de dilatación entre bloques	S/.	12,276.48	0.21%	S/.	7,387,657.13	123.47%	S/.	75,762.87	0.43%	S/.	15,658,780.88	89.42%	S/.	367.20	0.02%	S/.	1,475,873.44	92.60%	S/.	88,406.56	0.30%	S/.	29,727,538.04	100.68%
12.00.00	Cielorrasos				S/.	7,387,657.13		S/.	15,658,780.88		S/.	15,658,780.88		S/.	1,475,873.44		S/.	1,475,873.44		S/.	29,727,538.04		S/.	29,727,538.04	
12.01.00	Cielo raso horizontal (mezcla c:a 1:4, e=2.5cm)	S/.	82,321.44	1.38%	S/.	7,469,978.57	124.85%	S/.	-	0.00%	S/.	15,658,780.88	89.42%	S/.	2,474.43	0.16%	S/.	1,478,347.87	92.76%	S/.	101,691.19	0.34%	S/.	29,829,229.23	101.03%
12.02.00	Cielo raso tarrajado en fondo de graderíos (mezcla c:a 1:5 e=1.5cm)	S/.	139,648.93	2.33%	S/.	7,609,627.49	127.18%	S/.	28,660.98	0.16%	S/.	15,687,441.85	89.58%	S/.	4,197.59	0.26%	S/.	1,482,545.46	93.02%	S/.	172,507.50	0.58%	S/.	30,001,736.73	101.61%
13.00.00	Pisos y pavimentos				S/.	7,609,627.49		S/.	15,687,441.85		S/.	15,687,441.85		S/.	1,482,545.46		S/.	1,482,545.46		S/.	30,001,736.73		S/.	30,001,736.73	
13.01.00	Contra piso de 40 mm (mezcla c:a base 1:5 acabado 1:2)	S/.	100,386.40	1.68%	S/.	7,710,013.89	128.86%	S/.	280,058.86	1.60%	S/.	15,967,500.72	91.18%	S/.	20,887.19	1.31%	S/.	1,503,432.65	94.33%	S/.	401,332.45	1.36%	S/.	30,403,069.18	102.97%

Anexo 05.04. Costos de producción total propuestos desagregados por: mano de obra, materiales, equipos y herramientas (Fuente elaboración propia)

Item	Descripción	Costo de mano de obra recalculado (propuesto)				Costo de materiales recalculado (propuesto)				Costo de equip. y herram. recalculado (propuesto)				Costo total de las partidas recalculadas (propuestos)											
		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado									
		(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%								
13.03.00	Piso de cerámico Grecia 0.40 x 0.40	S/.	64,388.43	1.08%	S/.	7,774,402.32	129.93%	S/.	174,895.42	1.00%	S/.	16,142,396.14	92.18%	S/.	1,915.77	0.12%	S/.	1,505,348.42	94.45%	S/.	241,199.61	0.82%	S/.	30,644,268.79	103.79%
13.11.00	Piso de cemento con impermeabilizante c:a acabado bruñado e=2 cm	S/.	182,334.90	3.05%	S/.	7,956,737.22	132.98%	S/.	-	0.00%	S/.	16,142,396.14	92.18%	S/.	15,846.26	0.99%	S/.	1,521,194.68	95.45%	S/.	333,285.97	1.13%	S/.	30,977,554.76	104.92%
15.00.00	Zócalos				S/.	7,956,737.22					S/.	16,142,396.14					S/.	1,521,194.68					S/.	30,977,554.76	
15.02.00	Zócalo de cerámico blanco top 0,45 x 0,45	S/.	52,881.30	0.88%	S/.	8,009,618.52	133.86%	S/.	227,911.50	1.30%	S/.	16,370,307.64	93.48%	S/.	1,573.39	0.10%	S/.	1,522,768.07	95.54%	S/.	282,366.19	0.96%	S/.	31,259,920.96	105.87%
18.00.00	Revestimientos especiales				S/.	8,009,618.52					S/.	16,370,307.64					S/.	1,522,768.07					S/.	31,259,920.96	
18.02.00	Revestimiento de muros y placas con piedra volcánica porosa tipo Amantani almohadillada	S/.	63,010.43	1.05%	S/.	8,072,628.95	134.92%	S/.	123,860.30	0.71%	S/.	16,494,167.94	94.19%	S/.	1,886.20	0.12%	S/.	1,524,654.27	95.66%	S/.	188,756.93	0.64%	S/.	31,448,677.89	106.51%
20.00.00	Carpintería metálica y herrería				S/.	8,072,628.95					S/.	16,494,167.94					S/.	1,524,654.27					S/.	31,448,677.89	
20.03.00	Tubo electrosoldado 4"x2" para ventanas	S/.	212,844.30	3.56%	S/.	8,285,473.25	138.47%	S/.	308,617.18	1.76%	S/.	16,802,785.12	95.95%	S/.	53,316.86	3.35%	S/.	1,577,971.13	99.01%	S/.	574,778.34	1.95%	S/.	32,023,456.23	108.46%
20.09.00	Tubo negro diámetro = 1 1/2" en barandas	S/.	38,799.28	0.65%	S/.	8,324,272.53	139.12%	S/.	-	0.00%	S/.	16,802,785.12	95.95%	S/.	9,759.88	0.61%	S/.	1,587,731.01	99.62%	S/.	76,006.94	0.26%	S/.	32,099,463.17	108.72%
20.10.00	Tubo negro diámetro = 1" elementos horizontales	S/.	84,972.80	1.42%	S/.	8,409,245.33	140.54%	S/.	44,985.60	0.26%	S/.	16,847,770.72	96.21%	S/.	21,331.20	1.34%	S/.	1,609,062.21	100.96%	S/.	151,289.60	0.51%	S/.	32,250,752.77	109.23%
20.20.00	Tubo LAC 2"x4" de 3mm para sistema muro cortina vidrio reflejante bronce de 6mm	S/.	52,639.96	0.88%	S/.	8,461,885.28	141.42%	S/.	100,082.20	0.57%	S/.	16,947,852.92	96.78%	S/.	18,767.59	1.18%	S/.	1,627,829.80	102.14%	S/.	171,489.74	0.58%	S/.	32,422,242.51	109.81%
23.00.00	Vidrios, cristales y similares				S/.	8,461,885.28					S/.	16,947,852.92					S/.	1,627,829.80					S/.	32,422,242.51	
23.01.00	Vidrio sistema moduglass color bronce de e=6 mm (incluye accesorios e instalación)	S/.	-	0.00%	S/.	8,461,885.28	141.42%	S/.	693,787.63	3.96%	S/.	17,641,640.54	100.74%	S/.	-	0.00%	S/.	1,627,829.80	102.14%	S/.	693,787.63	2.35%	S/.	33,116,030.14	112.16%
23.05.00	Vidrio sistema moduglass transparente e=10 mm (incluye accesorios e instalación)	S/.	-	0.00%	S/.	8,461,885.28	141.42%	S/.	-	0.00%	S/.	17,641,640.54	100.74%	S/.	-	0.00%	S/.	1,627,829.80	102.14%	S/.	239,503.39	0.81%	S/.	33,355,533.53	112.97%
23.06.00	Vidrio sistema muro cortina reflejante bronce e= 6mm (incluye accesorios e instalación)	S/.	-	0.00%	S/.	8,461,885.28	141.42%	S/.	269,578.54	1.54%	S/.	17,911,219.08	102.28%	S/.	-	0.00%	S/.	1,627,829.80	102.14%	S/.	269,578.54	0.91%	S/.	33,625,112.07	113.88%
24.00.00	Pintura				S/.	8,461,885.28					S/.	17,911,219.08					S/.	1,627,829.80					S/.	33,625,112.07	
24.01.00	Pintura látex en cielo raso horizontal (incluye vigas y fondo de escaleras)	S/.	121,850.12	2.04%	S/.	8,583,735.40	143.46%	S/.	77,287.79	0.44%	S/.	17,988,506.87	102.72%	S/.	3,655.50	0.23%	S/.	1,631,485.31	102.37%	S/.	202,793.41	0.69%	S/.	33,827,905.49	114.57%
24.02.00	Pintura látex en muros interiores (incluye columnas y derrames)	S/.	154,301.43	2.58%	S/.	8,738,036.83	146.04%	S/.	58,352.57	0.33%	S/.	18,046,859.45	103.06%	S/.	4,699.54	0.29%	S/.	1,636,184.84	102.66%	S/.	217,353.54	0.74%	S/.	34,045,259.03	115.31%
24.03.00	Pintura en muros exteriores (incluye columnas y derrames)	S/.	122,789.04	2.05%	S/.	8,860,825.88	148.09%	S/.	-	0.00%	S/.	18,046,859.45	103.06%	S/.	3,650.81	0.23%	S/.	1,639,835.66	102.89%	S/.	235,599.20	0.80%	S/.	34,280,858.22	116.11%

Anexo 05.04. Costos de producción total propuestos desagregados por: mano de obra, materiales, equipos y herramientas (Fuente elaboración propia)

Item	Descripción	Costo de mano de obra recalculado (propuesto)				Costo de materiales recalculado (propuesto)				Costo de equip. y herram. recalculado (propuesto)				Costo total de las partidas recalculadas (propuestos)											
		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado		Parcial		Acumulado									
		(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%	(S/.)	%								
40.00.00	Resembrado de grass natural			S/.	8,860,825.88			S/.	18,046,859.45			S/.	1,639,835.66			S/.	34,280,858.22								
40.03.00	Movimiento de tierras			S/.	8,860,825.88			S/.	18,046,859.45			S/.	1,639,835.66			S/.	34,280,858.22								
40.03.02	Eliminación de material excedente de excavaciones	S/.	7,546.63	0.13%	S/.	8,868,372.51	148.22%	S/.	-	0.00%	S/.	18,046,859.45	103.06%	S/.	51,559.07	3.24%	S/.	1,691,394.73	106.12%	S/.	59,105.71	0.20%	S/.	34,339,963.93	116.31%
40.03.04	Relleno y compactado de fundaciones con material de préstamo campo deportivo	S/.	199,821.05	3.34%	S/.	9,068,193.56	151.56%	S/.	70,528.87	0.40%	S/.	18,117,388.31	103.46%	S/.	61,245.36	3.84%	S/.	1,752,640.09	109.97%	S/.	331,595.27	1.12%	S/.	34,671,559.20	117.43%
40.03.05	Corte con maquinaria para cancha (terreno normal)	S/.	2,426.89	0.04%	S/.	9,070,620.44	151.60%	S/.	-	0.00%	S/.	18,117,388.31	103.46%	S/.	10,249.47	0.64%	S/.	1,762,889.56	110.61%	S/.	12,676.36	0.04%	S/.	34,684,235.56	117.47%
			9,070,620.44	151.6%					18,117,388.31	103.5%				1,762,889.56	110.6%				34,684,235.56	117.5%					