

7.-CURVA MASA.

SECRETARÍA DE INFRAESTRUCTURA

NÚMEROS GENERADORES GENERAL (FORMATO SI-S)

No DE CONTRATO: _____
COSA: _____
LOCALIDAD: SALTO DE AGUA
CONSTRUCCION DE BERMAS EN TALUDES, DENTRO DE LA CONSTRUCCION DE LA AUTOPISTA PALENOQUE - SAN CRISTOBAL CONSTRUCCION DEL
SUBTRAMO: KM. 5+640 AL KM.6+340 Y DEL SUBTRAMO: KM. 7+040 - KM. 11+000.

ESTIMACION NO:

PERIODO DE EJECUCION:

MUNICIPIO: SALTO DE AGUA, CHIAPAS
CONTRATISTA: MAQUINARIA Y EQUIPOS RECREACIONALES DEL SURESTE S.A. DE C.V.
FECHA DE INICIO Y TERMINO: _____
DIRECCION OPERATIVA: _____
DEL EJECCION REGIONAL: _____

CADENAMIENTOS	CORTE	CORTES			TERRAPLEN	DESP. TERR	SEMIDISTA	CORTE	CORTES			TERRAPLEN	DESP. TERR	CADENAMIENTO
		ES. LIGA	ABAT. TALUD	DESP. CORTE					ES. LIGA	ABAT. TALUD	DESP. CORTE			
5+640.00	0.00	19.33	0.00	0.00	214.00	12.34	10.00	0.00	193.30	0.00	0.00	2140.00	123.40	5+640.00
5+660.00	37.52	3.36	0.00	5.01	4.36	2.86	10.00	375.20	226.90	0.00	50.10	2183.60	152.00	5+660.00
5+680.00	336.55	0.00	70.97	15.81	0.00	0.00	10.00	3740.70	33.60	708.70	208.20	43.60	28.60	5+680.00
5+700.00	790.35	0.00	102.52	17.88	0.00	0.00	10.00	11269.00	0.00	1734.90	336.90	0.00	0.00	5+700.00
5+720.00	1043.41	0.00	154.27	19.57	0.00	0.00	10.00	18337.60	0.00	2567.90	374.50	0.00	0.00	5+720.00
5+740.00	1021.87	0.00	185.45	22.03	0.00	0.00	10.00	20652.80	0.00	3397.20	416.00	0.00	0.00	5+740.00
5+760.00	735.29	0.00	112.62	17.71	0.00	0.00	10.00	11571.60	0.00	2880.70	397.40	0.00	0.00	5+760.00
5+780.00	425.53	0.00	56.66	13.80	0.00	0.00	10.00	11608.20	0.00	1692.80	315.10	0.00	0.00	5+780.00
5+800.00	331.42	0.00	42.01	12.18	0.00	0.00	10.00	7569.50	0.00	986.70	259.80	0.00	0.00	5+800.00
5+820.00	352.75	0.00	66.27	13.72	0.00	0.00	10.00	6841.70	0.00	1082.60	279.00	0.00	0.00	5+820.00
5+840.00	408.48	0.00	78.30	14.08	0.00	0.00	10.00	7612.30	0.00	1444.70	270.30	0.00	0.00	5+840.00
5+860.00	325.06	0.00	78.39	12.95	0.00	0.00	10.00	7335.40	0.00	1555.90	270.30	0.00	0.00	5+860.00
5+880.00	96.22	18.87	33.33	8.30	110.63	6.06	10.00	4212.60	188.70	1117.20	212.50	1106.30	60.60	5+880.00
5+900.00	2.09	9.26	0.00	1.26	50.81	5.79	10.00	983.10	281.30	333.30	95.60	1614.40	118.50	5+900.00
5+920.00	390.03	0.00	7.97	10.97	0.00	0.00	10.00	3921.20	92.60	79.70	122.30	508.10	57.90	5+920.00
5+940.00	450.56	0.00	33.75	12.49	0.00	0.00	10.00	8405.90	0.00	906.80	234.60	0.00	0.00	5+940.00
5+960.00	431.38	0.00	56.93	13.21	0.00	0.00	10.00	8819.40	0.00	981.80	251.30	0.00	0.00	5+960.00
5+980.00	346.63	0.00	41.25	11.92	0.00	0.00	10.00	7780.10	0.00	981.80	251.30	0.00	0.00	5+980.00
6+000.00	278.41	0.00	0.00	12.21	0.00	0.00	10.00	6250.40	0.00	412.50	219.20	0.00	0.00	6+000.00
6+020.00	360.45	0.00	0.00	10.00	0.00	0.00	10.00	6388.60	0.00	0.00	222.10	0.00	0.00	6+020.00
6+040.00	446.67	0.00	92.15	15.46	0.00	0.00	10.00	8101.20	0.00	921.50	276.70	0.00	0.00	6+040.00
6+060.00	575.30	0.00	84.00	17.22	0.00	0.00	10.00	10249.70	0.00	1871.50	326.80	0.00	0.00	6+060.00
6+080.00	786.13	0.00	100.77	16.55	0.00	0.00	10.00	13614.30	0.00	1847.70	337.70	0.00	0.00	6+080.00
6+100.00	731.22	0.00	91.04	16.02	0.00	0.00	10.00	15173.50	0.00	1918.10	325.70	0.00	0.00	6+100.00
6+120.00	824.28	0.00	112.43	17.58	0.00	0.00	10.00	15555.00	0.00	2034.70	336.00	0.00	0.00	6+120.00
6+140.00	900.64	0.00	124.01	18.36	0.00	0.00	10.00	17249.20	0.00	2364.40	359.40	0.00	0.00	6+140.00
6+160.00	630.54	0.00	86.02	17.06	0.00	0.00	10.00	15311.80	0.00	2100.30	354.20	0.00	0.00	6+160.00
6+180.00	256.68	0.00	29.44	10.74	0.00	0.00	10.00	8892.20	0.00	1154.60	278.00	0.00	0.00	6+180.00
6+200.00	24.47	29.40	0.00	4.18	195.35	13.75	10.00	2831.50	294.00	294.40	149.20	1953.50	137.50	6+200.00
6+220.00	0.00	27.85	0.00	0.00	492.16	16.39	10.00	244.70	572.50	0.00	41.80	6875.10	301.40	6+220.00
6+240.00	0.00	6.13	0.00	0.00	830.71	29.49	10.00	0.00	339.80	0.00	0.00	13278.70	458.80	6+240.00
6+260.00	0.00	11.46	0.00	0.00	786.53	19.69	10.00	0.00	175.90	0.00	0.00	16192.40	491.80	6+260.00
6+280.00	0.00	12.83	0.00	0.00	522.90	15.11	10.00	0.00	242.90	0.00	0.00	13114.30	348.00	6+280.00
6+300.00	0.00	11.45	0.00	0.00	239.93	10.86	10.00	0.00	242.80	0.00	0.00	7628.30	259.70	6+300.00
6+320.00	28.31	6.88	0.00	3.68	52.54	5.61	10.00	283.10	183.30	0.00	36.80	2924.70	164.70	6+320.00
6+340.00	171.57	0.00	0.00	0.00	0.00	0.00	10.00	1998.90	68.80	0.00	36.80	525.40	56.10	6+340.00
					1715.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7+040.00	118.00	0.00	7.45	0.00	0.00	0.00	10.00	1180.00	0.00	0.00	0.00	0.00	0.00	7+040.00
7+060.00	65.96	0.00	6.20	0.00	0.00	0.00	10.00	1839.60	0.00	0.00	136.50	0.00	0.00	7+060.00
7+080.00	34.09	0.00	5.27	0.00	0.00	0.00	10.00	1000.50	0.00	0.00	114.70	0.00	0.00	7+080.00
7+100.00	2.78	0.00	3.17	0.00	0.97	2.33	10.00	366.70	0.00	0.00	84.40	9.70	23.30	7+100.00
7+120.00	12.85	3.11	0.00	3.24	2.92	3.30	10.00	156.30	0.00	0.00	64.10	64.10	56.30	7+120.00
7+140.00	5.79	14.62	0.00	1.29	114.81	10.14	10.00	188.40	177.30	0.00	45.30	1177.30	134.40	7+140.00
7+160.00	0.00	18.54	0.00	0.00	263.50	11.28	10.00	57.90	331.60	0.00	12.90	3783.10	214.20	7+160.00
7+180.00	0.00	20.31	0.00	0.00	236.52	11.61	10.00	0.00	388.50	0.00	0.00	5000.20	228.90	7+180.00
7+200.00	0.00	21.41	0.00	0.00	202.85	14.13	10.00	0.00	417.20	0.00	0.00	4393.70	257.40	7+200.00
7+220.00	0.00	22.34	0.00	0.00	234.30	15.40	10.00	0.00	437.50	0.00	0.00	4371.50	295.30	7+220.00
7+240.00	0.00	21.63	0.00	0.00	260.74	14.44	10.00	0.00	439.70	0.00	0.00	4950.40	298.40	7+240.00
7+260.00	0.00	23.77	0.00	0.00	292.06	14.69	10.00	0.00	454.00	0.00	0.00	5528.00	291.30	7+260.00



SECRETARÍA DE INFRAESTRUCTURA

NÚMEROS GENERADORES GENERAL

(FORMATO SI-S)

ESTIMACIÓN NO.

NO DE CONTRATO:
COSA

CONSTRUCCIÓN DE BERMAS EN TALUDES, DENTRO DE LA CONSTRUCCIÓN DE LA AUTOPISTA PALENQUE - SAN CRISTÓBAL CONSTRUCCIÓN DEL
SUBTRAMO: KM. 5+640 AL KM.6+340 Y DEL SUBTRAMO: KM. 7+040 - KM. 11+000.

LOCALIDAD: SALTO DE AGUA

MUNICIPIO: SALTO DE AGUA, CHIAPAS.

CONTRATISTA: MAQUINARIA Y EQUIPOS RECREACIONALES DEL SURESTE S.A. DE C.V.

FECHA DE INICIO Y TÉRMINO:

DIRECCIÓN OPERATIVA:
DEL EJE REGIONAL

PERIODO DE EJECUCIÓN:

CADENAMIENTOS	CORTES				SEMIDISTIA	CORTES				TERRENIOS		ORDENADA CURVA MASA
	CORTE	ES. LIGA	ABMT. TALUD	DISP. CORTE		CORTE	ES. LIGA	ABMT. TALUD	DISP. CORTE	TERRENIOS	DISP. TERR	
7+280.00	0.00	22.64	0.00	0.00	263.78	14.77	10.00	0.00	0.00	5558.40	294.60	7+280.00
7+300.00	0.00	21.84	0.00	0.00	189.70	14.21	10.00	0.00	0.00	444.80	289.80	7+300.00
7+320.00	17.91	20.49	0.00	3.49	124.31	12.27	10.00	179.10	423.30	1243.10	264.80	7+320.00
7+340.00	74.61	0.00	0.00	7.40	0.00	10.00	0.00	925.20	204.90	1243.10	122.70	7+340.00
7+360.00	0.00	13.85	0.00	0.00	188.87	11.04	10.00	746.10	138.50	1888.70	110.40	7+360.00
7+380.00	0.00	27.43	0.00	0.00	376.47	17.63	10.00	0.00	412.80	5653.40	286.70	7+380.00
7+400.00	1.69	28.09	0.00	3.56	204.20	15.18	10.00	16.90	555.20	5806.70	328.10	7+400.00
7+420.00	440.03	0.00	64.50	15.01	0.00	0.00	10.00	4417.20	280.90	2042.00	151.80	7+420.00
7+440.00	651.11	0.00	63.15	15.65	0.00	0.00	10.00	10911.40	0.00	0.00	0.00	7+440.00
7+460.00	537.51	0.00	83.07	15.69	0.00	0.00	10.00	11886.20	0.00	0.00	0.00	7+460.00
7+480.00	416.39	0.00	75.94	15.94	0.00	0.00	10.00	9539.00	0.00	0.00	0.00	7+480.00
7+500.00	519.04	0.00	64.02	15.41	0.00	0.00	10.00	9554.30	0.00	0.00	0.00	7+500.00
7+520.00	447.14	0.00	43.02	13.34	0.00	0.00	10.00	9661.80	0.00	0.00	0.00	7+520.00
7+540.00	172.61	0.00	15.01	9.59	0.00	0.00	10.00	6197.50	0.00	0.00	0.00	7+540.00
7+560.00	146.97	0.00	7.37	8.93	0.00	0.00	10.00	3195.80	0.00	0.00	0.00	7+560.00
7+580.00	365.03	0.00	32.05	12.50	0.00	0.00	10.00	5120.00	0.00	0.00	0.00	7+580.00
7+600.00	392.24	0.00	32.60	12.55	0.00	0.00	10.00	7572.70	0.00	0.00	0.00	7+600.00
7+620.00	351.86	0.00	31.22	12.37	0.00	0.00	10.00	7441.00	0.00	0.00	0.00	7+620.00
7+640.00	81.92	0.00	0.00	9.08	0.00	0.00	10.00	4337.80	0.00	0.00	0.00	7+640.00
7+660.00	260.28	0.00	26.48	11.50	0.00	0.00	10.00	3422.00	0.00	0.00	0.00	7+660.00
7+680.00	311.24	0.00	26.67	11.93	0.00	0.00	10.00	5715.20	0.00	0.00	0.00	7+680.00
7+700.00	289.63	0.00	30.29	12.01	0.00	0.00	10.00	6008.70	0.00	0.00	0.00	7+700.00
7+720.00	234.93	0.00	23.83	11.45	0.00	0.00	10.00	5245.60	0.00	0.00	0.00	7+720.00
7+740.00	247.03	0.00	15.96	10.23	0.00	0.00	10.00	4819.60	0.00	0.00	0.00	7+740.00
7+760.00	150.95	0.00	14.40	9.60	0.00	0.00	10.00	3979.80	0.00	0.00	0.00	7+760.00
7+780.00	179.53	0.00	15.91	9.89	0.00	0.00	10.00	3304.80	0.00	0.00	0.00	7+780.00
7+800.00	186.14	0.00	15.88	9.91	0.00	0.00	10.00	3656.70	0.00	0.00	0.00	7+800.00
7+820.00	156.67	0.00	0.00	8.62	0.00	0.00	10.00	3428.10	0.00	0.00	0.00	7+820.00
7+840.00	34.55	0.00	0.00	4.88	1.33	5.02	10.00	1912.20	0.00	0.00	0.00	7+840.00
7+860.00	0.00	50.51	0.00	0.00	341.44	28.59	10.00	345.50	505.10	0.00	48.80	7+860.00
7+880.00	0.00	44.41	0.00	0.00	837.98	35.37	10.00	949.20	0.00	0.00	0.00	7+880.00
7+900.00	0.00	37.98	0.00	0.00	765.60	22.98	10.00	823.90	0.00	0.00	0.00	7+900.00
7+920.00	0.00	17.86	0.00	0.00	162.36	14.17	10.00	558.40	0.00	0.00	0.00	7+920.00
7+940.00	1.17	6.91	0.00	1.52	20.06	15.12	10.00	11.70	247.70	0.00	15.20	7+940.00
7+960.00	43.02	0.00	0.00	6.08	0.00	0.00	10.00	444.90	69.10	0.00	76.00	7+960.00
7+980.00	13.96	0.00	0.00	9.24	0.00	0.00	10.00	1809.80	0.00	0.00	153.20	7+980.00
8+000.00	218.86	0.00	0.00	10.76	0.00	0.00	10.00	3568.20	0.00	0.00	200.00	8+000.00
8+020.00	256.84	0.00	112.00	15.04	0.00	0.00	10.00	4757.00	0.00	0.00	258.00	8+020.00
8+040.00	365.79	0.00	113.61	15.19	0.00	0.00	10.00	6206.30	0.00	0.00	302.30	8+040.00
8+060.00	354.79	0.00	118.11	14.88	0.00	0.00	10.00	7185.80	0.00	0.00	300.70	8+060.00
8+080.00	231.10	0.00	107.46	14.20	0.00	0.00	10.00	5858.90	0.00	0.00	290.80	8+080.00
8+100.00	17.99	0.00	0.00	9.34	0.00	0.00	10.00	4030.90	0.00	0.00	235.40	8+100.00
8+120.00	70.84	0.00	0.00	6.99	0.00	0.00	10.00	2428.30	0.00	0.00	163.30	8+120.00
8+140.00	146.59	0.00	0.00	10.35	0.00	0.00	10.00	2174.30	0.00	0.00	173.40	8+140.00
8+160.00	180.96	0.00	0.00	12.51	0.00	0.00	10.00	3275.30	0.00	0.00	228.60	8+160.00
8+180.00	153.84	0.00	0.00	13.43	0.00	0.00	10.00	3348.00	0.00	0.00	259.40	8+180.00
8+200.00	184.55	0.00	96.14	14.62	0.00	0.00	10.00	3383.90	0.00	0.00	280.50	8+200.00
8+220.00	236.74	0.00	105.70	14.98	0.00	0.00	10.00	4242.90	0.00	0.00	296.00	8+220.00
8+240.00	254.56	0.00	107.04	14.79	0.00	0.00	10.00	4943.00	0.00	0.00	297.70	8+240.00
8+260.00	269.14	0.00	104.20	14.62	0.00	0.00	10.00	5237.00	0.00	0.00	294.10	8+260.00
8+280.00	297.33	0.00	104.43	14.77	0.00	0.00	10.00	5664.70	0.00	0.00	293.90	8+280.00

SECRETARÍA DE INFRAESTRUCTURA

NÚMEROS GENERADORES GENERAL (FORMATO SI-5)

No DE CONTRATO:
OSBA:
CONSTRUCCION DE BERMAS EN TALUDES, DENTRO DE LA CONSTRUCCION DE LA AUTOPISTA PALENCUE - SAN CRISTOBAL CONSTRUCCION DEL
SUBTRAMO: KM. 5+640 AL KM.6+340 Y DEL SUBTRAMO: KM. 7+040 - KM. 11+000.

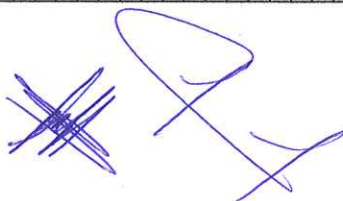
ESTACION NO:

LOCALIDAD: SALTO DE AGUA, CHIAPAS

PERIODO DE EJECUCION:

MUNICIPIO: SALTO DE AGUA, CHIAPAS
CONTRATISTA: MAQUINARIA Y EQUIPOS RECREACIONALES DEL SURESTE S.A. DE C.V.
FECHA DE INICIO Y TERMINO:
DIRECCION REGIONAL:

CADENAMIENTOS	CORTE						TERREPLEN						ORDENADA CURVA MASA					
	CORTE	ES. LIGA	ABAT. TALUD	DESP. CORTE	TERRAPLEN	DESP. TERR	NCA	CORTE	ES. LIGA	ABAT. TALUD	DESP. CORTE	TERRAPLEN	DESP. TERR	CADENAMIENTO				
8+300.00	366.63	0.00	0.00	12.54	0.00	0.00	10.00	6599.66	0.00	1044.30	273.10	0.00	0.00	8+300.00	410744			
8+320.00	411.88	0.00	0.00	12.82	0.00	0.00	10.00	7745.10	0.00	0.00	253.60	0.00	0.00	8+320.00	411489.1			
8+340.00	399.09	0.00	101.22	15.41	0.00	0.00	10.00	8705.70	0.00	1012.20	282.30	0.00	0.00	8+340.00	426598.8			
8+360.00	253.00	0.00	0.00	10.41	0.00	0.00	10.00	6520.90	0.00	1012.20	258.20	0.00	0.00	8+360.00	433119.7			
8+380.00	168.85	0.00	0.00	8.52	0.00	0.00	10.00	4218.50	0.00	0.00	189.30	0.00	0.00	8+380.00	437338.2			
8+400.00	15.42	0.00	0.00	2.66	7.45	3.97	10.00	1842.70	0.00	0.00	111.80	74.50	39.70	8+400.00	439106.4			
8+420.00	0.00	23.05	0.00	0.00	276.91	14.79	10.00	154.20	230.50	0.00	26.60	2843.60	187.60	8+420.00	436417			
8+440.00	0.00	25.30	0.00	0.00	597.86	21.76	10.00	0.00	483.50	0.00	0.00	3747.70	365.50	8+440.00	427669.3			
8+460.00	0.00	50.08	0.00	0.00	801.52	28.00	10.00	0.00	753.80	0.00	0.00	13993.80	497.60	8+460.00	413675.5			
8+480.00	0.00	48.10	0.00	0.00	597.77	28.00	10.00	0.00	981.80	0.00	0.00	13992.90	560.00	8+480.00	399682.6			
8+500.00	0.00	32.53	0.00	0.00	546.06	26.36	10.00	0.00	806.30	0.00	0.00	11438.30	543.60	8+500.00	388244.3			
8+520.00	0.00	21.71	0.00	0.00	266.86	16.20	10.00	0.00	542.40	0.00	0.00	8129.20	425.60	8+520.00	380115.1			
8+540.00	2.01	14.29	0.00	1.53	101.72	9.13	10.00	20.10	360.00	0.00	15.30	3685.80	253.30	8+540.00	376449.4			
8+560.00	4.95	0.00	0.00	5.34	0.00	0.00	10.00	69.60	142.90	0.00	68.70	1017.20	91.30	8+560.00	375501.8			
8+580.00	213.77	0.00	0.00	9.50	0.00	0.00	10.00	2187.20	0.00	0.00	148.40	0.00	0.00	8+580.00	377689			
8+600.00	431.51	0.00	0.00	12.55	0.00	0.00	10.00	6452.80	0.00	0.00	220.50	0.00	0.00	8+600.00	384141.8			
8+620.00	252.77	0.00	0.00	10.81	0.00	0.00	10.00	6842.80	0.00	0.00	233.60	0.00	0.00	8+620.00	390984.6			
8+640.00	22.57	4.33	0.00	4.93	9.07	2.47	10.00	2753.40	43.30	0.00	157.40	90.70	24.70	8+640.00	395647.3			
8+660.00	0.00	13.82	0.00	0.00	142.49	9.98	10.00	0.00	181.50	0.00	49.30	1515.60	124.50	8+660.00	392357.4			
8+680.00	0.00	11.14	0.00	0.00	126.36	10.05	10.00	0.00	249.60	0.00	0.00	2688.50	200.30	8+680.00	389668.9			
8+700.00	0.00	14.07	0.00	0.46	120.06	10.42	10.00	0.00	252.10	0.00	4.60	2464.20	204.70	8+700.00	387204.7			
8+720.00	0.00	16.20	0.00	0.00	199.96	11.94	10.00	0.00	302.70	0.00	4.60	3200.20	223.60	8+720.00	384004.5			
8+740.00	0.00	21.45	0.00	0.00	357.87	14.71	10.00	0.00	376.50	0.00	0.00	5578.30	266.50	8+740.00	378426.2			
8+760.00	0.00	0.00	0.00	0.00	510.65	17.79	10.00	0.00	214.50	0.00	0.00	8685.20	325.00	8+760.00	369741			
8+780.00	0.00	0.00	0.00	0.00	566.77	18.24	10.00	0.00	0.00	0.00	0.00	10774.20	360.30	8+780.00	359668.8			
8+800.00	0.00	0.00	0.00	0.00	560.83	17.64	10.00	0.00	0.00	0.00	0.00	11276.00	358.80	8+800.00	347690.8			
8+820.00	0.00	15.87	0.00	0.00	410.13	15.57	10.00	0.00	158.70	0.00	0.00	9709.60	332.10	8+820.00	337981.2			
8+840.00	0.00	19.51	0.00	0.00	306.16	14.40	10.00	0.00	353.80	0.00	0.00	7162.90	299.70	8+840.00	330818.3			
8+860.00	0.00	18.58	0.00	0.00	277.76	13.95	10.00	0.00	380.90	0.00	0.00	5839.20	283.50	8+860.00	324979.1			
8+880.00	0.00	15.43	0.00	0.00	338.73	14.25	10.00	0.00	340.10	0.00	0.00	6164.90	282.00	8+880.00	318814.2			
8+900.00	0.00	8.61	0.00	0.00	343.14	13.35	10.00	0.00	240.40	0.00	0.00	6818.70	276.00	8+900.00	311995.5			
8+920.00	0.00	10.66	0.00	0.00	175.81	10.55	10.00	0.00	192.70	0.00	0.00	5189.50	239.00	8+920.00	306806			
8+940.00	6.57	0.00	8.33	4.68	3.66	1.81	10.00	66.70	106.60	83.30	46.80	1794.70	123.60	8+940.00	305078			
8+960.00	127.63	0.00	56.32	10.81	0.00	0.00	10.00	1343.00	0.00	646.50	154.90	36.60	18.10	8+960.00	306384.4			
8+980.00	216.91	0.00	76.66	11.86	0.00	0.00	10.00	3445.40	0.00	1329.80	226.70	0.00	0.00	8+980.00	309829.8			
9+000.00	106.21	0.00	33.85	8.67	0.00	0.00	10.00	3231.20	0.00	1105.10	205.30	0.00	0.00	9+000.00	313061			
9+020.00	0.00	0.00	0.00	0.00	67.43	7.61	10.00	1063.10	0.00	338.50	86.70	674.30	76.10	9+020.00	313448.8			
9+040.00	0.00	0.00	0.00	0.00	177.30	10.99	10.00	0.00	0.00	0.00	0.00	2447.30	186.00	9+040.00	311001.5			
9+060.00	0.00	0.00	0.00	0.00	175.54	10.92	10.00	0.00	0.00	0.00	0.00	3528.40	219.10	9+060.00	307473.1			
9+080.00	0.00	0.00	0.00	0.00	172.44	10.19	10.00	0.00	0.00	0.00	0.00	3479.80	211.10	9+080.00	303993.3			
9+100.00	0.00	0.00	0.00	0.00	145.88	9.49	10.00	0.00	0.00	0.00	0.00	3183.20	196.80	9+100.00	300810.1			
9+120.00	0.00	0.00	0.00	0.00	167.08	9.97	10.00	0.00	0.00	0.00	0.00	3129.60	194.60	9+120.00	297680.5			
9+140.00	0.00	0.00	0.00	0.00	164.84	9.91	10.00	0.00	0.00	0.00	0.00	3319.20	198.80	9+140.00	294361.3			
9+160.00	0.00	0.00	0.00	0.00	77.02	7.85	10.00	0.00	0.00	0.00	0.00	2418.60	177.60	9+160.00	291942.7			
9+180.00	44.30	0.00	0.00	5.58	0.00	0.00	10.00	443.00	0.00	0.00	55.80	770.20	78.50	9+180.00	291615.5			
9+200.00	183.30	0.00	0.00	8.77	0.00	0.00	10.00	2276.00	0.00	0.00	143.50	0.00	0.00	9+200.00	298915.5			
9+220.00	440.35	0.00	0.00	12.43	0.00	0.00	10.00	6236.50	0.00	0.00	212.00	0.00	0.00	9+220.00	300128			
9+240.00	840.37	0.00	0.00	16.03	0.00	0.00	10.00	12807.20	0.00	0.00	284.60	0.00	0.00	9+240.00	312995.2			
9+260.00	1082.40	0.00	0.00	19.25	0.00	0.00	10.00	19227.90	0.00	0.00	352.80	0.00	0.00	9+260.00	33162.9			
9+280.00	988.89	0.00	0.00	20.86	0.00	0.00	10.00	20712.90	0.00	0.00	401.10	0.00	0.00	9+280.00	352875.8			
9+300.00	938.23	0.00	0.00	22.89	0.00	0.00	10.00	19271.20	0.00	0.00	437.50	0.00	0.00	9+300.00	372147			



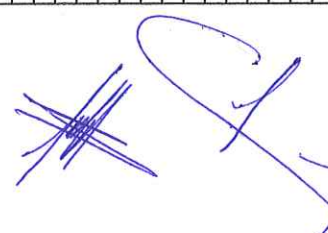
SECRETARÍA DE INFRAESTRUCTURA

NÚMEROS GENERADORES GENERAL

(FORMATO SI-5)

ESTIMACIÓN NO:	LOCALIDAD: SALTO DE AGUA, CHIAPAS.	NO DE CONTRATO:
PERIODO DE EJECUCIÓN:	MUNICIPIO: SALTO DE AGUA, CHIAPAS.	OBRA:
	CONSTRUCCIÓN DE BERMAS EN TALUDES, DENTRO DE LA CONSTRUCCIÓN DE LA AUTOPISTA PALENQUE - SAN CRISTOBAL CONSTRUCCION DEL	
	SUBTRAMO: KM. 5+640 AL KM.6+340 Y DEL SUBTRAMO: KM. 7+040 - KM. 11+000.	
	FECHA DE INICIO Y TÉRMINO:	
	DIRECCIÓN OPERATIVA:	
	DEL SECTOR REGIONAL:	

CADENAMIENTOS	CORTES			TERREPLLEN			SEMIDISTA			CORTES			TERREPLLEN			ORDENADA CURVA MASA
	CORTE	ES. LIGA	ABAT. TALUD	DISP. CORTE	TERRAPLEN	DISP. TERR	NCIA	CORTE	ES. LIGA	ABAT. TALUD	DISP. CORTE	TERRAPLEN	DISP. TERR			
9+320.00	928.27	0.00	0.00	21.54	0.00	0.00	10.00	1865.00	0.00	0.00	444.30	0.00	0.00	9+320.00	350812	
9+340.00	836.76	0.00	0.00	21.14	0.00	0.00	10.00	17650.30	0.00	0.00	426.80	0.00	0.00	9+340.00	400462.3	
9+360.00	585.33	0.00	0.00	16.88	0.00	0.00	10.00	14220.90	0.00	0.00	380.20	0.00	0.00	9+360.00	427683.2	
9+380.00	361.18	0.00	0.00	12.86	0.00	0.00	10.00	9465.10	0.00	0.00	297.40	0.00	0.00	9+380.00	432148.3	
9+400.00	303.15	0.00	0.00	10.61	0.00	0.00	10.00	6643.30	0.00	0.00	234.70	0.00	0.00	9+400.00	438721.6	
9+420.00	200.28	0.00	0.00	8.95	0.00	0.00	10.00	5034.30	0.00	0.00	195.60	0.00	0.00	9+420.00	443825.9	
9+440.00	43.19	0.00	0.00	5.77	0.00	0.00	10.00	2434.70	0.00	0.00	147.20	0.00	0.00	9+440.00	446260.6	
9+460.00	0.00	0.00	0.00	0.00	94.58	8.79	10.00	431.90	0.00	0.00	57.70	945.80	87.90	9+460.00	445746.7	
9+480.00	0.00	0.00	0.00	0.00	367.83	15.59	10.00	0.00	172.10	0.00	0.00	4624.10	243.80	9+480.00	441122.6	
9+500.00	0.00	0.00	0.00	0.00	688.17	20.77	10.00	0.00	246.90	0.00	0.00	10560.00	363.60	9+500.00	430562.6	
9+520.00	0.00	0.00	0.00	0.00	893.57	23.43	10.00	0.00	74.80	0.00	0.00	15817.40	442.00	9+520.00	414745.2	
9+540.00	0.00	0.00	0.00	0.00	811.84	20.78	10.00	0.00	62.70	0.00	0.00	17054.10	442.10	9+540.00	397691.1	
9+560.00	0.00	5.24	0.00	0.00	537.39	18.01	10.00	0.00	115.10	0.00	0.00	13492.30	387.90	9+560.00	384198.8	
9+580.00	0.00	0.00	0.00	0.00	108.80	9.35	10.00	0.00	52.40	0.00	0.00	6461.90	273.60	9+580.00	377736.9	
9+600.00	42.62	0.00	0.00	6.32	0.00	0.00	10.00	426.20	0.00	0.00	63.20	1088.00	93.50	9+600.00	37075.1	
9+620.00	212.05	0.00	0.00	0.00	0.00	0.00	10.00	2546.70	0.00	0.00	63.20	0.00	0.00	9+620.00	379621.8	
9+640.00	154.37	0.00	0.00	0.00	0.00	0.00	10.00	3664.20	0.00	0.00	0.00	0.00	0.00	9+640.00	383286	
9+660.00	105.18	0.00	0.00	0.00	0.00	0.00	10.00	2595.50	0.00	0.00	0.00	0.00	0.00	9+660.00	383881.5	
9+680.00	130.58	8.80	0.00	0.00	0.00	4.21	10.00	2357.60	88.00	0.00	0.00	0.00	42.10	9+680.00	388329.1	
9+700.00	0.00	20.06	0.00	0.00	585.42	15.02	10.00	1305.80	288.60	0.00	0.00	5854.20	192.30	9+700.00	383690.7	
9+720.00	0.00	24.26	0.00	0.00	682.32	15.36	10.00	0.00	443.20	0.00	0.00	12676.50	303.80	9+720.00	371014.2	
9+740.00	0.00	20.11	0.00	0.00	773.82	17.40	10.00	0.00	443.70	0.00	0.00	14560.50	327.60	9+740.00	356453.7	
9+760.00	0.00	8.74	0.00	0.00	919.03	22.48	10.00	0.00	288.50	0.00	0.00	16928.50	398.80	9+760.00	339525.2	
9+780.00	0.00	19.75	0.00	0.00	1105.52	24.17	10.00	0.00	284.90	0.00	0.00	20247.70	466.50	9+780.00	319277.5	
9+800.00	0.00	0.00	0.00	0.00	1253.52	27.60	10.00	0.00	197.50	0.00	0.00	23592.60	317.70	9+800.00	295684.9	
9+820.00	0.00	0.00	0.00	0.00	1338.93	28.48	10.00	0.00	0.00	0.00	0.00	25924.50	560.80	9+820.00	269760.4	
9+840.00	0.00	0.00	0.00	0.00	1259.95	27.83	10.00	0.00	0.00	0.00	0.00	25988.80	563.10	9+840.00	243711.6	
9+860.00	0.00	9.70	0.00	0.00	1141.40	22.35	10.00	0.00	97.00	0.00	0.00	24013.50	326.50	9+860.00	219758.1	
9+880.00	0.00	23.13	0.00	0.00	940.25	22.35	10.00	0.00	328.30	0.00	0.00	20816.50	471.70	9+880.00	198941.6	
9+900.00	0.00	26.04	0.00	0.00	591.85	21.35	10.00	0.00	491.70	0.00	0.00	15321.00	437.00	9+900.00	183620.6	
9+920.00	0.00	19.59	0.00	0.00	407.59	16.75	10.00	0.00	456.30	0.00	0.00	9994.40	381.00	9+920.00	173626.2	
9+940.00	0.00	10.45	0.00	0.00	239.39	11.61	10.00	0.00	300.40	0.00	0.00	6469.80	283.60	9+940.00	167156.4	
9+960.00	0.00	0.00	0.00	0.00	40.89	6.02	10.00	0.00	104.50	0.00	0.00	2802.80	176.30	9+960.00	164353.6	
9+980.00	227.13	0.00	0.00	0.00	0.00	0.00	10.00	2271.30	0.00	0.00	0.00	408.90	60.20	9+980.00	162216	
10+000.00	408.45	0.00	0.00	0.00	0.00	0.00	10.00	6355.80	0.00	0.00	0.00	0.00	0.00	10+000.00	172571.8	
10+020.00	122.84	0.00	0.00	0.00	0.00	0.00	10.00	5312.90	0.00	0.00	0.00	0.00	0.00	10+020.00	177444.2	
10+040.00	0.00	0.00	0.00	0.00	166.89	10.58	10.00	1228.40	0.00	0.00	0.00	1668.90	105.80	10+040.00	177444.2	
10+060.00	0.00	0.00	0.00	0.00	730.25	18.23	10.00	0.00	0.00	0.00	0.00	8971.40	288.10	10+060.00	168472.8	
10+080.00	0.00	0.00	0.00	0.00	1427.97	29.19	10.00	0.00	0.00	0.00	0.00	21582.20	474.20	10+080.00	146890.6	
10+100.00	0.00	0.00	0.00	0.00	1624.48	30.65	10.00	0.00	0.00	0.00	0.00	30524.50	608.10	10+100.00	116366.1	
10+120.00	0.00	0.00	0.00	0.00	1514.22	30.05	10.00	0.00	0.00	0.00	0.00	31387.00	516.70	10+120.00	84979.1	
10+140.00	0.00	0.00	0.00	0.00	1078.48	27.26	10.00	0.00	0.00	0.00	0.00	25927.00	573.10	10+140.00	59052.1	
10+160.00	0.00	0.00	0.00	0.00	520.55	18.89	10.00	0.00	0.00	0.00	0.00	15990.30	461.50	10+160.00	45061.8	
10+180.00	0.00	0.00	0.00	0.00	196.86	10.61	10.00	0.00	0.00	0.00	0.00	7174.10	295.00	10+180.00	35887.7	
10+200.00	63.36	0.00	0.00	0.00	0.00	0.00	10.00	633.60	0.00	0.00	0.00	1968.60	106.10	10+200.00	34552.7	
10+220.00	121.39	0.00	0.00	0.00	0.00	0.00	10.00	1847.50	0.00	0.00	0.00	0.00	0.00	10+220.00	36400.2	
10+240.00	336.21	0.00	0.00	0.00	0.00	0.00	10.00	4606.00	0.00	0.00	0.00	0.00	0.00	10+240.00	41006.2	
10+260.00	659.58	0.00	0.00	0.00	0.00	0.00	10.00	9987.90	0.00	0.00	0.00	0.00	0.00	10+260.00	50994.1	
10+280.00	988.46	0.00	0.00	0.00	0.00	0.00	10.00	16480.40	0.00	0.00	0.00	0.00	0.00	10+280.00	67474.5	
10+300.00	886.68	0.00	0.00	0.00	0.00	0.00	10.00	18781.40	0.00	0.00	0.00	0.00	0.00	10+300.00	86255.9	
10+320.00	773.66	0.00	0.00	0.00	0.00	0.00	10.00	16633.40	0.00	0.00	0.00	0.00	0.00	10+320.00	102889.30	



SECRETARÍA DE INFRAESTRUCTURA

NÚMEROS GENERADORES GENERAL (FORMATO SI-5)

Nº DE CONTRATO: _____
CERCA: _____
CONSTRUCCIÓN DE BERMAS EN TALUDES, DENTRO DE LA CONSTRUCCIÓN DE LA AUTOPISTA PALENQUE - SAN CRISTÓBAL CONSTRUCCIÓN DEL
SUESTRAMO: KM. 5+640 AL KM.6+340 Y DEL SUBTRAMO: KM. 7+040 - KM. 11+000.

ESTIMACIÓN NO:

LOCALIDAD: SALTO DE AGUA, CHIAPAS

MUNICIPIO: SALTO DE AGUA, CHIAPAS

CONTRATISTA:

MAQUINARIA Y EQUIPOS RECREACIONALES DEL SURESTE S.A. DE C.V.

PERIODO DE EJECUCIÓN:

FECHA DE INICIO Y TERMINO:

DIRECCIÓN OPERATIVA:

DEL EJECCIÓN REGIONAL:

CADENAMIENTOS	CORTE	CORTES				SEMIDISTA	CORTES				TEREPIENES				ORDENADA CURVA MASA
		ES. LIGA	ABAT. TALUD	DISP. CORTE	TERRAPLEN		DESP. TERR	ES. LIGA	ABAT. TALUD	DISP. CORTE	TERRAPLEN	DESP. TERR			
10-340.00	526.80		195.76		0.00	10.00	13004.60	0.00	5475.00	0.00	0.00	0.00	10-340.00	111893.9	
10-360.00	444.11		123.78		0.00	10.00	9709.10	0.00	3195.40	0.00	0.00	0.00	10-360.00	125603	
10-380.00	292.54		44.11		0.00	10.00	7366.50	0.00	1681.90	0.00	0.00	0.00	10-380.00	132969.5	
10-400.00	73.15		0.00		0.00	10.00	3656.90	0.00	444.10	0.00	0.00	0.00	10-400.00	136626.4	
10-420.00	157.79		0.00		0.00	10.00	2259.40	0.00	0.00	0.00	0.00	0.00	10-420.00	138885.8	
10-440.00	436.37		196.85		0.00	10.00	5891.60	0.00	1968.50	0.00	0.00	0.00	10-440.00	144177.4	
10-460.00	637.47		342.19		0.00	10.00	10738.40	0.00	5390.40	0.00	0.00	0.00	10-460.00	155515.8	
10-480.00	681.61		348.37		0.00	10.00	13190.80	0.00	6995.60	0.00	0.00	0.00	10-480.00	168706.6	
10-500.00	647.78		224.72		0.00	10.00	13293.90	0.00	5730.90	0.00	0.00	0.00	10-500.00	182000.5	
10-520.00	392.36		110.18		0.00	10.00	10401.40	0.00	3349.00	0.00	0.00	0.00	10-520.00	192401.90	
10-540.00	70.85		0.00		0.00	10.00	4632.10	0.00	1101.80	0.00	0.00	0.00	10-540.00	197034	
10-560.00	0.00		0.00		8.28	10.00	708.50	0.00	0.00	0.00	856.40	82.80	10-560.00	198886.1	
10-580.00	0.00		0.00		139.46	10.11	0.00	0.00	0.00	0.00	2251.00	183.90	10-580.00	194635.1	
10-600.00	0.00		0.00		96.76	8.41	0.00	0.00	0.00	0.00	2362.20	185.20	10-600.00	192272.9	
10-620.00	45.64		0.00		0.00	10.00	456.40	0.00	0.00	0.00	967.60	84.10	10-620.00	191761.7	
10-640.00	236.75		46.22		0.00	10.00	2823.90	0.00	462.20	0.00	0.00	0.00	10-640.00	194585.6	
10-660.00	435.29		140.81		0.00	10.00	6720.40	0.00	1870.30	0.00	0.00	0.00	10-660.00	201306	
10-680.00	404.56		138.29		0.00	10.00	8398.50	0.00	2791.00	0.00	0.00	0.00	10-680.00	209704.5	
10-700.00	283.02		91.87		0.00	10.00	6875.80	0.00	2301.60	0.00	0.00	0.00	10-700.00	216580.3	
10-720.00	177.71		44.53		0.00	10.00	4607.30	0.00	1360.80	0.00	0.00	0.00	10-720.00	221187.6	
10-740.00	257.06		91.55		0.00	10.00	4297.70	0.00	1360.80	0.00	0.00	0.00	10-740.00	224855.3	
10-760.00	317.97		276.26		0.00	10.00	5700.30	0.00	3678.10	0.00	0.00	0.00	10-760.00	231185.6	
10-780.00	377.51		294.65		0.00	10.00	6954.80	0.00	5709.10	0.00	0.00	0.00	10-780.00	238140.4	
10-800.00	541.96		258.76		0.00	10.00	9194.70	0.00	5534.10	0.00	0.00	0.00	10-800.00	247335.1	
10-820.00	804.05		338.75		0.00	10.00	13460.10	0.00	5975.10	0.00	0.00	0.00	10-820.00	260795.2	
10-840.00	892.64		325.85		0.00	10.00	16966.90	0.00	6646.00	0.00	0.00	0.00	10-840.00	277762.1	
10-860.00	939.82		339.10		0.00	10.00	18324.60	0.00	6649.50	0.00	0.00	0.00	10-860.00	296086.7	
10-880.00	761.09		281.61		0.00	10.00	17009.10	0.00	6207.10	0.00	0.00	0.00	10-880.00	313095.8	
10-900.00	539.04		186.24		0.00	10.00	13001.30	0.00	4678.50	0.00	0.00	0.00	10-900.00	326097.1	
10-920.00	457.99		126.19		0.00	10.00	9920.30	0.00	3124.30	0.00	0.00	0.00	10-920.00	336017.4	
10-940.00	326.61		98.26		0.00	10.00	7796.00	0.00	2244.50	0.00	0.00	0.00	10-940.00	343813.4	
10-960.00	322.18		110.03		0.00	10.00	6487.90	0.00	2082.90	0.00	0.00	0.00	10-960.00	350301.3	
10-980.00	222.98		75.86		0.00	10.00	5451.60	0.00	1858.90	0.00	0.00	0.00	10-980.00	357522.9	
11-000.00	170.13		34.70		0.00	10.00	3931.10	0.00	1105.60	0.00	0.00	0.00	11-000.00	359884	

TOTAL ACUMULADO 1,056,271.10

24,122.40

708,582.40

24,915.80

794,871.40

29,201.60

TOTAL TERAPIEN 848,195.40

CF

X



SECRETARÍA DE INFRAESTRUCTURA

NÚMEROS GENERADORES GENERAL

(FORMATO SI-5)

ESTIMACIÓN NO.

No DE CONTRATO
CERA

CONSTRUCCIÓN DE BERRIAS EN TALUDES, DENTRO DE LA CONSTRUCCIÓN DE LA AUTOPISTA PALANQUE - SAN CRISTÓBAL CONSTRUCCIÓN DEL
SUBTRAMO: KM. 5+640 AL KM.6+340 Y DEL SUBTRAMO: KM. 7+040 - KM. 11+000.

LOCALIDAD SALTO DE AGUA

MUNICIPIO SALTO DE AGUA, CHIAPAS.

CONTRATISTA MAQUINARIA Y EQUIPOS RECREACIONALES DEL SURESTE S.A. DE C.V.

FECHA DE INICIO Y TÉRMINO

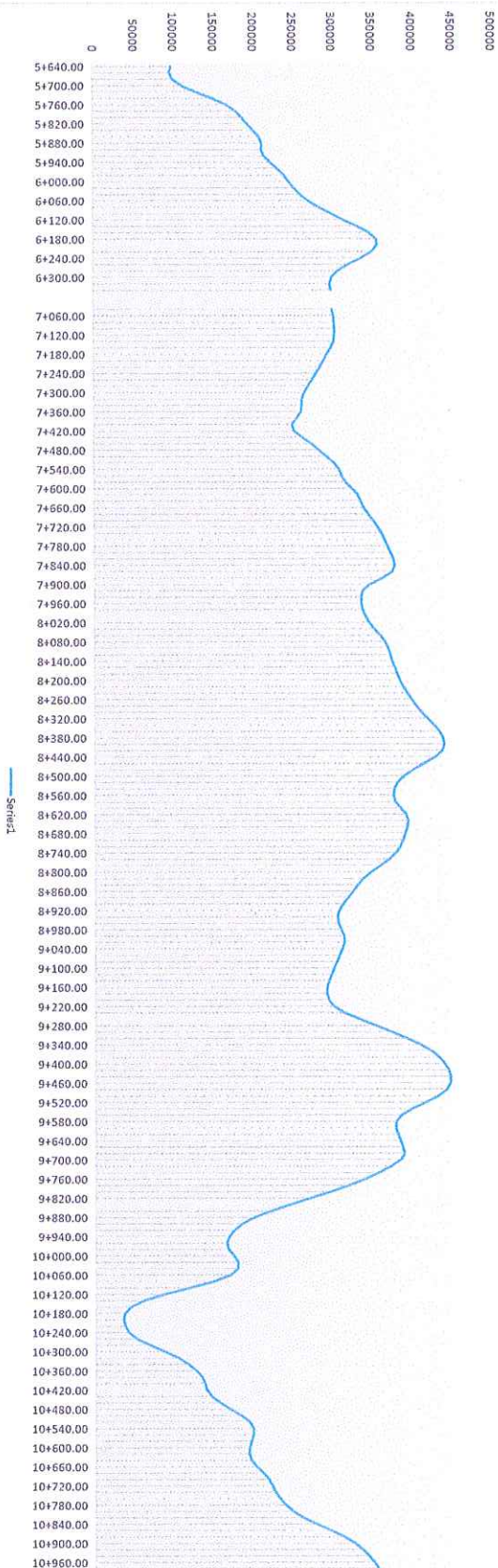
DIRECCIÓN OPERATIVA

DEL EJECCIÓN REGIONAL

PERIODO DE EJECUCIÓN:

CADENAMIENTOS	CORTES						SEMIDISTA						CORTES						TEREPLÉNES						ORDENADA CURVA MASA
	CORTE		ES. LIGA		ABAT. TALUD		DESP. CORTE		TERRAPLEN		DESP. TERR		CORTE		ES. LIGA		ABAT. TALUD		DESP. CORTE		TERRAPLEN		DESP. TERR		

CURVAMASA KM 8+500 AL 9+600



Handwritten signature in blue ink.

Handwritten signature in blue ink.