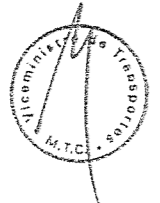






X + 159m	X + 162m	X + 165m
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Obras Complementarias

Inversión Total de las Inversiones en Obras Complementarias  
 Obra 1A - Remodelación de 4 Estaciones (i.e. Villa El Salvador, Cultura, Gamarra y Bayovar)  
 Obra 1B - Remodelación de 1 Estación (i.e. Grau)  
 Obra 2 - Mejoras en el Sistema Eléctrico  
 Obra 3 - Segundo Acceso al Patio de VES  
 Obra 4 - Ampliación de Vías de Estacionamiento en el Patio de Maniobras  
 Obra 5 - Nuevos enlaces (cambiarías) en vía principal

Monto / Cálculo	Unidad	Nomenclatura	Clausula
136,777,473.72	Dólares	= IT <sub>obras</sub>	
15,971,611.95	Dólares	11.68%	
3,992,952.99	Dólares	2.92%	
47,631,388.14	Dólares	34.97%	
16,141,570.78	Dólares	11.80%	
19,189,728.71	Dólares	14.03%	
33,650,021.14	Dólares	24.60%	

Tasa de Cálculo Obras:

= i

Porcentaje = i<sub>obras</sub>

Tasa de Cálculo Obras mensual:

= [(1 + i<sub>obras</sub>)<sup>(1/12)</sup> - 1]

Porcentaje = im<sub>obras</sub>

Tasa de Cálculo Obras trimestral:

= [(1 + i<sub>obras</sub>)<sup>(90/360)</sup> - 1]

Porcentaje = it<sub>obras</sub>

Cierre Financiero de Obras:

dd/mm/aaaa

Fecha = CF<sub>obras</sub>

Último Día del semestre calendario correspondiente en que se firme el Acta de Aceptación de las Obras Complementarias de la última Obra Complementaria, para el caso del PAO Complementario que remunera las Obras Complementarias. En caso que la firma el Acta de Aceptación de las Obras Complementarias de la última Obra Complementaria se realice dentro de los últimos dos (2) meses del Semestre calendario, será el último día del Trimestre Calendario inmediatamente siguiente al vencimiento del Semestre Calendario correspondiente a la fecha en que firme el Acta antes indicado:

dd/mm/aaaa

Fecha = CA<sub>obras</sub>

Último día hábil del semestre calendario siguiente a la fecha prevista en el Calendario de Obras Complementarias del Contrato para la firma del Acta de Aceptación de las Obras Complementarias correspondiente a la última Obra Complementaria.:

dd/mm/aaaa

Fecha = AO<sub>obras</sub>

Numero de meses para Factor de Actualización

= [ MIN (AO<sub>obras</sub>, CA<sub>obras</sub>) - CF<sub>obras</sub> ] / 30

Meses = n<sub>obras</sub>

Factor de Actualización (fa<sub>i</sub>)

= (1 + im<sub>obras</sub>)<sup>n<sub>obras</sub></sup>

Factor = fa<sub>i</sub>

Valor de Obras Complementarias Ajustado:

= IT<sub>obras</sub> x fa<sub>i</sub>

Dólares = ITA<sub>obras</sub>

Factor de Conversión (fc<sub>i</sub>)

=  $\frac{it_{obras} * (1 + it_{obras})^{56}}{(1 + it_{obras})^{56} - 1}$

Factor = fc<sub>i</sub>

Pago Anual por Obras Obras

= ITA<sub>obras</sub> \* fc<sub>i</sub>

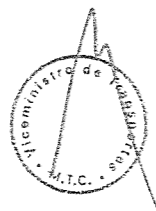
Dólares = CPAO<sub>obras</sub>

Fecha de Pago del Primer CPAO<sub>obras</sub>

dd/mm/aaaa

Fecha = X

Fecha	Hito	X	X + 3m	X + 6m	X + 9m	X + 12m	X + 15m	X + 18m	X + 21m	X + 24m	X + 27m	X + 30m	X + 33m	X + 36m	X + 39m	X + 42m
CPAO <sub>obras</sub> 1A	Aprobación del Hito de Obra 1A	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%	=CPAO <sub>obras</sub> *70%*11.68%
CPAO <sub>obras</sub> 1B	Aprobación del Hito de Obra 1B	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%	=CPAO <sub>obras</sub> *70%*2.92%
CPAO <sub>obras</sub> 2	Aprobación del Hito de Obra 2	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%	=CPAO <sub>obras</sub> *70%*34.97%
CPAO <sub>obras</sub> 3	Aprobación del Hito de Obra 3	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%	=CPAO <sub>obras</sub> *70%*11.80%
CPAO <sub>obras</sub> 4	Aprobación del Hito de Obra 4	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%	=CPAO <sub>obras</sub> *70%*14.03%
CPAO <sub>obras</sub> 5	Aprobación del Hito de Obra 5	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%	=CPAO <sub>obras</sub> *70%*24.60%



Ministerio de Transportes y Comunicaciones  
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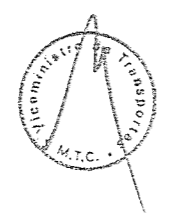
13 JUL. 2016

Fecha																				
X + 45m	X + 48m	X + 51m	X + 54m	X + 57m	X + 60m	X + 63m	X + 66m	X + 69m	X + 72m	X + 75m	X + 78m	X + 81m	X + 84m	X + 87m	X + 90m	X + 93m	X + 96m	X + 99m	X + 102m	X + 105m
*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%	*CPAO...*70%*11.68%
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*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%	*CPAD .....70%*11.68%
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*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%	*CPAD .....70%*34.97%
*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%	*CPAD .....70%*11.80%
*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%	*CPAD .....70%*14.03%
*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%	*CPAD .....70%*24.60%



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13 JUL. 2015

