D.V. N° 676 /2022

COPIA Asunción, 11 de abril de 2022

Señor
EDGARDO WASMOSY, Representante legal
ECOMIPA S.A.

Ref.: Contrato SG Ministro N° 468/2017 - OBRAS DE MEJORAMIENTO DEL CORREDOR DE EXPORTACIÓN DE LA REGIÓN ORIENTAL. TRAMO 2: 7 DE AGOSTO – RIO ÑACUNDAY.- Llamado MOPC N° 138/2016.

Tengo el agrado de dirigirme a usted en el marco del Contrato SG Ministro N° 468/2017 para la ejecución de las OBRAS DE MEJORAMIENTO DEL CORREDOR DE EXPORTACIÓN DE LA REGIÓN ORIENTAL, TRAMO 2: 7 DE AGOSTO – RÍO ÑACUNDAY, en respuesta a la solicitud de reprogramación del cronograma vigente en virtud del Convenio Modificatorio N° 4.

Al respecto, considerando que por Memorándum UEP JICA PG-P17 Nº 100/2022, la Unidad Ejecutora del Proyecto informó a esta Dirección de que no existen objeciones en dar curso favorable a la propuesta, atendiendo al informe del Consorcio Central Yachiyo presentado vía Nota OC-PG-P17 N° 2.224/2022, se comunica la aprobación de la reprogramación solicitada.

Hago propicia la oportunidad para saludarlo muy atentamente.

MINISTERIO DE OBRAS PUBLICAS Y COMUNICACIONES
DIRECCION DE VIALIDAD

Ing. VÍCTOR HUGO OLMEDO LÓPEZ
Director de Vialidad - MOPC

C.C.: Consorcio Central Yachiyo

Ing. PABLO L. SILVA S.
Jefe UEP JICA PG-P17
D.V. - M.O.P.C.

Recibí
Pablo Villarroyar
11/04/22
15:46h

Recibí
11-04-22

FISCALIZACIÓN

yec CONSORCIO CENTRAL - YACHIYO

Ministerio de OBRAS PÚBLICAS Y COMUNICACIONES

GOBIERNO NACIONAL

Paraguay de la gente

CONTRATISTA

ECOMIPA

CRONOGRAMA FISICO FINANCIERO - CONVENIO MODIFICATORIO CM 04 - Reprogramación

PLAZO

Ítem	Descripción	30-jun-18	31-jul-18	31-ago-18	30-sep-18	31-oct-18	30-nov-18	31-dic-18	31-ene-19	28-feb-19	31-mar-19	30-abr-19	31-may-19	30-jun-19	31-jul-19	31-ago-19	30-sep-19	31-oct-19	30-nov-19	31-dic-19	31-ene-20	29-feb-20	31-mar-20	30-abr-20	31-may-20	30-jun-20	31-jul-20	31-ago-20	30-sep-20	31-oct-20	30-nov-20	31-dic-20	31-ene-21	28-feb-21	31-mar-21	30-abr-21	31-may-21	30-jun-21	31-jul-21	31-ago-21	30-sep-21	31-oct-21	30-nov-21	31-dic-21	31-ene-22	28-feb-22	31-mar-22	30-abr-22	31-may-22	24-jun-22
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
ITEM 1	PREPARACION DEL AREA DE TRABAJO																																																	
1.1	Despejo y limpieza de la franja			0.00602%	0.05250%	0.05906%	0.11025%	0.11812%	0.11025%	0.05670%	0.05250%	0.04226%	0.01181%	0.01575%	0.00785%	0.07333%	0.07333%	0.10031%	0.10031%	0.10031%										0.04922%	0.04766%														0.01436%					0.03389%
1.2	Remoción de estructuras existentes										0.00519%	0.00139%	0.01041%	0.01041%	0.01080%	0.01246%	0.00741%	0.00741%	0.00741%																															
1.3	Traslado de columnas de líneas eléctricas					0.01165%	0.01341%	0.05579%					0.01498%	0.01331%	0.01341%	0.05579%	0.05579%	0.05579%																										-0.00240%						0.03271%
1.4	Reposición de cañerías de agua																				0.07165%										0.02313%	0.03090%	0.00777%										0.03563%	0.14554%	0.00899%				0.00453%	0.04506%
ITEM 2	MOVIMIENTO DE SUELOS																																																	
2.1	Excavación no Clasificada					0.00005%	0.00027%	0.00047%	0.00057%	0.00055%	0.00051%	0.00047%	0.00030%	0.00061%	0.00053%	0.00061%	0.00061%	0.00057%	0.00053%	0.00051%									0.14939%	0.29878%	0.29878%	0.14939%			0.14939%	0.14939%	0.14939%				0.05791%	0.06791%	0.08314%	0.14939%	0.04421%					
2.2	Excavación de bolsones					0.00018%	0.00092%	0.00160%	0.00192%	0.00185%	0.00172%	0.00158%	0.00103%	0.00206%	0.00179%	0.00206%	0.00206%	0.00192%	0.00179%	0.00206%											0.00206%	0.00351%	0.01166%	0.02369%	0.02444%	0.03554%	0.04521%	0.03554%	0.01952%	0.02578%	0.02614%	0.02022%			0.00632%					0.29712%
2.3	Excavaciones de zanjas de drenajes					0.00399%	0.01793%	0.02646%	0.01095%	0.00272%	0.00107%	0.00710%	0.01732%	0.01364%	0.04122%	0.01772%	0.01212%	0.01666%	0.00003%	0.01038%																								-0.03626%						0.21161%
2.5	Terraplén					0.07322%	0.37569%	0.65444%	0.78594%	0.75787%	0.70173%	0.64559%	0.42104%	0.84208%	0.72980%	0.84208%	0.84208%	0.78594%	0.72980%	0.84208%	0.53253%	0.53253%	0.53253%	0.53253%	0.53253%	0.53253%	0.48562%	0.48562%	0.48562%	0.49443%	0.46919%	0.51373%	0.49497%	0.51248%	0.49007%	0.51822%	0.49945%	0.52760%	0.51822%	0.52736%	0.51015%	0.51600%			0.09382%		0.05469%			0.37527%
2.7	Camada Drenante								0.00960%	0.02036%	0.01885%	0.01734%	0.01234%	0.01937%	0.01679%	0.01937%	0.02483%	0.01296%	0.01204%	0.00695%			0.00522%	0.00913%	0.01065%	0.00662%	0.00438%	0.02539%	0.02539%	0.02054%	0.03697%	0.03099%	0.03952%	0.03345%	0.01952%	0.02371%	0.02371%	0.02371%	0.01185%	0.01185%						0.02927%	0.04256%	0.09659%	0.00208%	0.02848%
2.8	Pedraplén							0.06370%	0.13081%	0.12613%	0.11679%	0.11722%	0.05999%	0.11998%	0.10399%	0.15384%	0.08605%	0.08031%	0.03729%	0.06598%	0.31276%	0.29912%					0.39501%	0.39501%	0.39501%	0.59252%	0.70756%	0.50510%	0.50191%	0.52993%	0.50306%	0.49979%	0.51378%	0.55243%	0.50508%	0.45594%	0.55469%	0.50506%	0.50506%	1.44748%						0.06124%
ITEM 3	ESTRUCTURA DE PAVIMENTO																																																	
3.1	Sub Base de Suelo Agregado							0.04712%	0.18082%	0.25871%	0.22893%	0.21062%	0.13736%	0.27472%	0.23809%	0.27472%	0.27472%	0.25640%	0.23809%	0.27472%	0.19981%	0.19981%	0.21229%	0.27472%	0.27472%	0.21229%	0.21229%	0.21229%	0.21229%	0.14987%	0.17145%	0.16633%	0.12217%	0.08727%	0.13727%	0.13727%	0.14420%	0.13495%	0.13495%	0.13495%	0.13495%	0.11348%	0.10886%	0.16323%	0.14012%	0.13575%	0.16696%	0.14106%	0.02129%	0.13478%
3.2	Base de Piedra Triturada							0.06230%	0.23906%	0.34205%	0.30268%	0.27846%	0.18161%	0.36321%	0.31478%	0.36321%	0.36321%	0.33900%	0.31478%	0.36321%	0.29154%	0.29154%	0.29154%	0.29154%	0.29154%	0.29154%	0.29154%	0.29154%	0.21987%	0.21987%	0.23755%	0.21991%	0.16155%	0.11538%	0.24252%	0.24252%	0.27268%	0.13182%	0.13182%	0.20349%	0.13182%	0.14423%	0.14563%	0.23966%		0.26168%	0.26168%	0.23932%	0.07222%	0.15869%
3.3	Imprimación asfáltica							0.01287%	0.04939%	0.07066%	0.06253%	0.05753%	0.03752%	0.07503%	0.06503%	0.07503%	0.07503%	0.07003%	0.06503%	0.07503%		0.03984%	0.06498%	0.07503%	0.07503%	0.07503%	0.07503%	0.07503%	0.07503%	0.07045%	0.03874%			0.02384%	0.05454%	0.05454%	0.05093%	0.02758%	0.02758%	0.02758%	0.02758%	0.04170%	0.04867%	0.07335%	0.00156%	0.07699%	0.08798%	0.08797%		
3.4	Riego de liga									0.00416%	0.01156%	0.00963%	0.00540%	0.01279%	0.01109%	0.01969%	0.02463%	0.02696%	0.02503%	0.02888%			0.02888%	0.02888%	0.02888%	0.02888%	0.02888%	0.02888%	0.02888%	0.02888%	0.02421%				0.00935%	0.01067%	0.00544%	0.00376%	0.00376%	0.00376%	0.00376%	0.00176%	0.01215%	0.02751%			0.05409%	0.04100%	0.04074%	
3.5	Carpeta de concreto asfáltico															0.15523%	0.33483%	0.42482%	0.39447%	0.45516%	0.45516%	0.45516%	0.45516%	0.45516%	0.45516%	0.45516%	0.45516%	0.45516%	0.45516%	0.45516%	0.45516%	0.28551%	0.25170%	0.28561%					0.38579%	0.37087%	0.37087%	0.39740%					0.36722%	0.52458%	0.46422%	0.44205%
3.6	Base de concreto asfáltico									0.10698%	0.29717%	0.24733%	0.16412%	0.32824%	0.28447%	0.32824%	0.32824%	0.30636%	0.28447%	0.32824%	0.32824%	0.32824%	0.06753%	0.06753%	0.06753%	0.32824%	0.32824%	0.32824%	0.32824%	0.32824%	0.32824%	0.32824%	0.27944%	0.24483%	0.27163%	0.25484%	0.22136%	0.22136%	0.20838%	0.20838%	0.19207%	0.17490%			0.23431%			0.16653%	0.20201%	0.16502%
3.8	Pavimento tipo empedrado																			0.01632%					0.01553%	0.01933%	0.01743%	0.01632%	0.01632%						0.01111%	0.01301%	0.00867%						0.08711%		0.03860%		0.01185%	0.06663%	0.14234%	0.05521%
3.10	Regularización con mezcla asfáltica,																																						0.00363%											0.00511%
ITEM 4	DRENAJE Y PROTECCION DE LA PLATAFORMA																																																	
4.1	Alcantarilla tubular de Ho. Ao.																																																	
4.1.2	Alcantarilla tubular de Ho. Ao. φ0,60m											0.00242%	0.00040%	0.01079%											0.00442%	0.00474%	0.00316%	0.00316%		0.00558%	0.00947%	0.00849%												0.00161%	0.00423%	0.00528%	0.00476%	0.00125%		
4.1.3	Alcantarilla tubular de Ho. Ao. φ0,80m											0.00542%	0.00091%	0.00943%	0.02401%									0.00262%	0.00786%	0.00524%	0.00262%	0.01362%	0.00969%	0.00091%	0.02401%	0.01465%		0.01112%	0.01112%	0.01112%								0.02942%	0.00630%	0.00877%				
4.1.4	Alcantarilla tubular de Ho. Ao.2x φ0,80m													0.00360%	0.00001%	0.00001%	0.00360%	0.00360%	0.00360%	0.00360%																														
4.1.5	Alcantarilla tubular de Ho. Ao.1 x φ 1,00m											0.00367%	0.00141%	0.00225%	0.00129%	0.00604%						0.00704%	0.00129%	0.00604%	0.00604%	0.00604%																		0.00002%						
4.1.6	Alcantarilla tubular de Ho. Ao 2 x φ 1,00m						0.00487%	0.00521%	0.00019%	0.00019%	0.00331%	0.00331%	0.00331%	0.00331%																																				
[illegible]	Alcantarilla tubular de Ho. Ao. φ 1,20m						0.00621%	0.00599%	0.00354%	0.02253%		0.00510%	0.00333%	0.02530%	0.00981%	0.02253%				0.01065%			0.03043%	0.02815%																				0.03161%						
[illegible]	Alcantarilla tubular de Ho. Ao.3 x φ1,20m				0.03867%	0.02900%	0.12362%	0.03480%	0.07470%	0.08477%	0.01611%	0.15121%	0.02900%	0.10248%	0.07390%	0.06458%	0.08477%			0.07496%	0.01520%	0.02005%	0.03743%	0.04749%	0.01022%																									
[illegible]	Alcantarilla celular de Ho. Ao.																																																	
4.[illegible]	Alcantarilla celular de Ho. Ao. 1 x 1,00 x 1,00m																		0.00457%	0.02722%	0.00040%	0.00040%	0.01315%	0.01277%	0.01629%	0.02296%																		0.00667%						
4.2.[illegible]	Alcantarilla celular de Ho. Ao. 1 x 1,50x 1,50m									0.00006%	0.00574%	0.00792%	0.00517%	0.04816%	0.01971%	0.00605%	0.02164%				0.01695%	0.00605%	0.02164%	0.02164%		0.02164%																		0.02095%						0.03007%
4.2.5	Alcantarilla celular de Ho. Ao. 1x 3,00 x 3,00m						0.03344%	0.01433%	0.04312%		0.05981%	0.03228%	0.01372%	0.10279%	0.01359%	0.02049%	0.04312%												0.04312%	0.02935%	0.03415%	0.03415%												0.06829%						
4.2.7	Alcantarilla celular de Ho. Ao. 2 x 1,00 x 1,00m											0.00413%	0.00269%	0.00539%	0.00200%	0.00200%	0.00663%	0.00661%	0.00663%	0.00663%																														
4.2.8	Alcantarilla celular de Ho. Ao. 2x 1,50 x 1,50m																						0.01727%	0.01727%	0.01671%	0.00648%			0.03590%	0.02794%	0.02794%	0.02794%																		0.03073%
4.2.10	Alcantarilla celular de Ho. Ao. 2 x 2,50 x 2,50m													0.01175%	0.01019%	0.00082%	0.00082%	0.02247%	0.02247%	0.02247%																														0.02247%
4.2.11	Alcantarilla celular de Ho. Ao. 2 x 3,00 x 3,00m						0.02781%	0.06362%	0.04309%	0.01747%	0.00392%	0.06058%								0.05234%	0.02094%	0.01359%	0.04877%	0.03029%	0.03294%	0.03029%																								
4.2.12	Alcantarilla celular de Ho. Ao. 2 x 4,00 x 4,00m				0.04967%	0.03401%	0.02195%	0.03044%	0.03044%	0.02038%	0.02038%	0.02038%	0.02038%																																					
4.2.15	Alcantarilla celular de Ho. Ao. 3 x 1,50 x 1,50m					0.05243%	0.05154%	0.03287%	0.03733%							0.06317%	0.03733%	0.00026%	0.05706%	0.00144%	0.01228%	0.01288%																												
4.3	Alcantarilla celular en Arco (Arroyo Yhaca mí)																																																	
4.4	Dren profundo con tubo perforado de φ0,15m								0.00925%	0.00925%	0.00925%	0.00925%	0.00925%	0.00925%	0.00925%	0.00925%	0.00925%	0.00925%	0.00925%	0.00925%																								-0.07835%						0.05399%
4.5	Cuneta revestida de hormigón																						0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%	0.16215%							1.12533%
4.6	Cordón cuneta de hormigón																									0.07002%						0.03179%	0.03179%	0.02881%		0.03179%			0.01589%	0.01589%			0.01967%	0.01932%	0.01959%	0.02642%	0.02335%	0.02028%	0.02028%	0.09086%
4.8	Cabecera para alcantarilla tubular							0.00430%	0.00401%	0.01193%	0.00490%	0.02013%		0.00143%	0.02186%	0.00716%	0.02278%	0.00817%	0.00415%	0.00381%	0.02013%		0.00785%	0.00328%	0.00507%		0.00373%	0.01118%	0.00716%	0.00430%	0.01032%	0.00530%	0.00381%	0.01379%	0.00612%									0.00761%	0.00638%					
4.9	Cabecera para alcantarilla celular							0.00874%	0.03555%	0.02855%	0.01171%	0.00603%	0.00167%	0.02010%	0.01688%	0.01619%	0.05993%	0.02014%	0.01572%	0.00958%		0.02702%	0.03157%	0.01747%		0.00803%	0.00803%	0.00803%	0.00301%	0.00763%	0.00958%	0.01360%	0.00913%	0.01092%	0.01298%	0.01298%	0.01119%	0.01119%	0.01119%	0.00950%				0.07931%						0.02533%
4.10	Disipador de energía																										0.00232%	0.00401%	0.00282%	0.00240%	0.00248%	0.00252%																	0.01504%	0.07520%
4.11	Relleno Granular				0.00075%	0.00136%	0.00349%	0.00166%	0.00040%	0.00016%	0.00109%	0.00375%	0.00098%	0.00671%	0.00217%	0.00171%	0.00252%	0.00000%	0.00127%	0.00436%			0.00273%	0.00329%	0.00358%			0.00223%		0.00301%	0.00302%	0.00270%												0.03208%						
4.12	Bajada de agua de terraplén																					0.00126%	0.00131%						0.01307%	0.01233%														0.02059%	0.02787%	0.03005%	0.02997%		0.02997%	0.11986%
4.14	Hormigón Estructural																					0.00269%	0.00278%	0.00377%	0.00491%	0.00319%	0.00401%	0.00221%	0.00226%	0.00405%	0.00161%	0.00163%	0.00276%	0.00199%	0.07616%	0.06172%	0.00694%	0.21128%	0.07523%	0.21060%	0.21053%	0.21053%		0.07253%	0.05162%					
4.15	Acero para Refuerzo																				0.00853%	0.01503%				0.00110%	0.00139%	0.00104%	0.01498%	0.00140%	0.00195%	0.00196%			0.02819%	0.03116%	0.01632%	0.05594%	0.16152%	0.16150%	0.19920%	0.19920%	0.07173%		0.00295%	0.01558%	0.01740%	0.01281%	0.01392%	
ITEM 5	PUENTES DE HORMIGON ARMADO																																																	
5.1	PUENTE NUEVO																																																	
	PUENTE N° 1 - PUENTE SOBRE EL ARROYO SAN JUAN (Prog 64+479,5 - 64+529,5)																																																	
5.1.1	MOVIMIENTO DE SUELO																																																	
5.1.1.1	Excavación estructural en suelo						0.00501%	0.00230%	0.00019%	0.00019%	0.00241%	0.00241%	0.00241%	0.00241%																																				
5.1.1.2	Excavación estructural en roca						0.00148%	0.00371%	0.00006%	0.00006%	0.00591%	0.00591%	0.00591%	0.00591%																																				
5.1.2	FUNDACIONES																																																	
5.1.2.1	Zapatas						0.00861%	0.07378%	0.00861%	0.00075%	0.00075%	0.02992%	0.02992%	0.02992%	0.02992%																																			
5.1.3	HOMIGON ESTRUCTURAL																																																	
5.1.3.3	Estribo de Ho. Ao (Fck 25 MPa)								0.01342%	0.05177%	0.05992%	0.00955%	0.00955%	0.05072%	0.05072%	0.05072%	0.05072%																																	-0.00775%
5.1.3.4	Pilas de Ho Ao. (Fck 25 MPa)									0.00409%	0.00023%	0.00023%	0.00465%	0.00465%	0.00465%	0.00465%																																		
5.1.3.5	Vigas longitudinales prefabricadas pretensadas (Fck 30 MPa)																																																	
5.1.3.5	Vigas longitudinales prefabricadas pretensadas (Fck 40 MPa)									0.04231%	0.03918%	0.04806%	0.01380%	0.01380%	0.01454%	0.01454%	0.01454%	0.01454%																																-0.00062%
5.1.3.6	Losa de Ho. Ao. (Fck 25 MPa) Incluye losa de aproximac. y de continu												0.01058%	0.00532%	0.00532%	0.02542%	0.02542%	0.02542%				0.02038%																												
5.1.3.7	Vigas transversales de Ho. Ao. (Fck 25 MPa)												0.00143%	0.00072%	0.00072%	0.00286%	0.00286%	0.00286%	0.00286%																															-0.00094%
5.1.3.8	Viga dintel de Ho. Ao (Fck 25 MPa)										0.00351%	0.00016%	0.00036%	0.00423%	0.00423%	0.00423%	0.00423%																																	
5.1.3.9	Hormigón de regularización Fck 15 MPa)						0.00290%	0.00311%	0.00145%	0.00017%	0.00017%	0.00207%	0.00207%	0.00207%	0.00207%																													0.00367%						
5.1.4	ACCESORIOS PREFABRICADOS																																																	
5.1.4.1	Base de baranda prefabricada													0.00159%	0.00000%	0.00000%	0.00160%	0.00160%	0.00160%	0.00160%																														-0.00002%
5.1.4.2	Baranda prefabricada de Ho.Ao								0.00159%	0.00153%	0.00180%	0.00180%	0.00045%	0.00045%	0.00045%	0.00045%																																		-0.00003%
5.1.4.3	Separador New Jersey lateral													0.01036%	0.00001%	0.00001%	0.01039%	0.01039%	0.01039%	0.01039%																														-0.00016%
5.1.5	APARATO DE APOYO ELASTOMERICO																																																	
5.1.5.1	Aparato de apoyo										0.00796%	0.00081%	0.00081%	0.00958%	0.00958%	0.00958%	0.00958%																																	
	OBRAS COMPLEMENTARIAS																																																	
	Drenaje de estribo								0.00059%	0.00228%	0.00015%	0.00015%	0.00159%	0.00159%	0.00159%	0.00159%																																		-0.00236%
	Drenaje de tablero con caño galvanizado de φ100mm												0.00005%	0.00002%	0.00002%	0.00015%	0.00015%	0.00015%	0.00015%																														
5.1.	Juntas de Dilatación													0.01115%	0.00002%	0.00002%	0.01119%	0.01119%	0.01119%	0.01119%																														-0.01363%
	PUENTE N°2 - PUENTE SOBRE EL RIO YACUI GUAZÚ (Prog 72+635 - 72+715)																																																	
5.1.1	MOVIMIENTO DE SUELOS																																																	
5.1.1.1	Excavación estructural en suelo						0.00581%	0.00267%	0.00022%	0.00022%	0.00580%	0.00580%	0.00580%	0.00580%																																				
5.1.1.2	Excavación estructural en roca						0.00072%	0.00230%	0.00072%	0.00006%	0.00006%	0.00517%	0.00517%	0.00517%	0.00517%																																			
5.1.2	FUNDACIONES																																																	
5.1.2.1	Zapatas								0.01706%	0.01097%	0.00126%	0.00126%	0.01602%	0.01602%	0.01602%	0.01602%																																		
5.1.2.2	Tubulones							0.01080%	0.01008%	0.00039%	0.00039%	0.01122%	0.01122%	0.01122%	0.01122%																																			
5.1.3	HORMIGÓN ESTRUCTURAL																																																	
5.1.3.1	Cabezales de Ho. Ao. (Fck 25 MPa)								0.01586%	0.00655%	0.00096%	0.00096%	0.01217%	0.01217%	0.01217%	0.01217%																																		
5.1.3.3	Estribos de Ho. Ao. (Fck 25 MPa)									0.02840%	0.01753%	0.00341%	0.00341%	0.02449%	0.02449%	0.02449%	0.02449%																																	-0.00192%
5.1.3.4	Pilas de Ho. Ao. (Fck 25 MPa)									0.01957%	0.00453%	0.00158%	0.00158%	0.01304%	0.01304%	0.01304%	0.01304%																																	
5.1.3.5	Vigas longitudinales prefabricadas pretensadas (Fck 30 MPa)																																																	
5.1.3.5	Vigas longitudinales prefabricadas pretensadas (Fck 40 MPa)									0.05733%	0.05309%	0.03256%	0.02123%	0.02437%	0.02437%	0.02926%	0.02926%	0.02926%	0.02926%																															-0.00095%
5.1.3.6	Losa de Ho. Ao (Fck 25 MPa) Incluye losa de aproxim y de continuida												0.01177%	0.03530%	0.00597%	0.00597%	0.02950%	0.02950%	0.02950%				0.03249%																											
5.1.3.7	Vigas transversales de Ho. Ao (Fck 25 MPa)												0.00212%	0.00283%	0.00107%	0.00107%	0.00355%	0.00355%	0.00355%	0.00355%																														-0.00066%
5.1.3.8	Viga dintel de Ho. Ao. (Fck 25 MPa)										0.00802%	0.00082%	0.00082%	0.00977%	0.00977%	0.00977%	0.00977%																																	
5.1.3.9	Hormigón de regularización (Fck 15 MPa)							0.00050%	0.00422%	0.00016%	0.00016%	0.00252%	0.00252%	0.00252%	0.00252%																																			-0.00307%
5.1.4	ACCESORIOS PREFABRICADOS DE HORMIGON																																																	
5.1.4.1	Base de barandas prefabricadas												0.00137%	0.00118%	0.00069%	0.00069%	0.00197%	0.00197%	0.00197%	0.00197%																														
5.1.4.2	Barandas prefabricadas de Ho. Ao.									0.00188%	0.00174%	0.00029%	0.00029%	0.00210%	0.00210%	0.00210%	0.00210%																																	
5.1.4.3	Separador New Jersey lateral													0.01530%	0.00002%	0.00002%	0.01535%	0.01535%	0.01535%	0.01535%																														
5.1.5	APARATO DE APOYO ELASTOMERICOS																																																	
5.1.5.1	Aparatos de apoyo												0.00956%	0.00481%	0.00481%	0.01917%	0.01917%	0.01917%	0.01917%																															
5.1.6	OBRAS COMPLEMENTARIAS																																																	
5.1.6.1	Drenaje de estribo									0.00104%	0.00096%	0.00016%	0.00016%	0.00116%	0.00116%	0.00116%	0.00116%																																	-0.00177%
5.1.6.2	Drenaje de tablero de caño galvanizado φ100mm												0.00005%	0.00015%	0.00003%	0.00003%	0.00021%	0.00021%	0.00021%	0.00021%																														
5.1.6.3	Colchones Reno													0.00379%	0.00000%	0.00000%	0.00201%	0.00201%	0.00201%	0.00201%																														-0.01134%
5.1.6.4	Gaviones													0.01258%	0.00002%	0.00002%	0.00638%	0.00638%	0.00638%	0.00638%																														-0.00855%
5.1.6.5	Juntas de Dilatación													0.01603%	0.00002%	0.00002%	0.01607%	0.01607%	0.01607%	0.01607%																														-0.01692%
	PUENTE N°3 - PUENTE SOBRE ARROYO CARPINCHO (Prog. 94+274 - 94+294)																																																	
5.1.1	MOVIMIENTO DE SUELOS																																																	
5.1.1.1	Excavación estructural en suelo					0.00162%	0.00082%	0.00082%	0.00218%	0.00218%	0.00218%	0.00218%																																						
5.1.1.2	Excavación estructural en roca					0.00021%	0.00059%	0.00013%	0.00013%	0.00122%	0.00122%	0.00122%	0.00122%																																					
5.1.2	FUNDACIONES																																																	
5.1.2.1	Zapatas						0.01111%	0.00041%	0.00041%	0.01193%	0.01193%	0.01193%	0.01193%																																					
5.1.3	HORMIGÓN ESTRUCTURAL																																																	
5.1.3.3	Estribos de Ho. Ao. (Fck 25 MPa)						0.02764%	0.01974%	0.00106%	0.00106%	0.02378%	0.02378%	0.02378%	0.02378%																																				
5.1.3.5	Vigas longitudinales prefabricadas pretensadas (Fck 30 MPa)																																																	
5.1.3.5	Vigas longitudinales prefabricadas pretensadas (Fck 40 MPa)						0.04881%	0.01307%	0.00184%	0.00184%	0.02171%	0.02171%	0.02171%	0.02171%																																				
5.1.3.6	Losa de Ho. Ao (Fck 25 MPa) Incluye losa de aproxim y de continuida								0.01386%	0.00052%	0.00052%	0.01595%	0.01595%	0.01595%				0.01595%																																
5.1.3.7	Vigas transversales de Ho. Ao (Fck 25 MPa)								0.00120%	0.00004%	0.00004%	0.00128%	0.00128%	0.00128%	0.00128%																																			
5.1.3.9	Hormigón de regularización (Fck 15 MPa)						0.00099%	0.00004%	0.00004%	0.00106%	0.00106%	0.00106%	0.00106%																																					
5.1.4	ACCESORIOS PREFABRICADOS																																																	
5.1.4.3	Separador New Jersey lateral								0.00535%	0.00020%	0.00020%	0.00575%	0.00575%	0.00575%	0.00575%																																			
5.1.5	APARATO DE APOYO ELASTOMERICOS																																																	
5.1.5.1	Aparatos de apoyo								0.00457%	0.00001%	0.00001%	0.00459%	0.00459%	0.00459%																																				

SHINICHI KASHIMA
Gerente de Proyecto
CONSORCIO CENTRAL YACHIYO

Ing. PABLO L. SILVA S.
Jefe UEP JICA PG-P17
D.V. - M.O.P.C.

ECOMIPA S.A.
Jorge Luis Oyola
Representante Legal

FISCALIZACIÓN

yec CONSORCIO CENTRAL - YACHIYO

Ministerio de OBRAS PÚBLICAS Y COMUNICACIONES

GOBIERNO NACIONAL

Paraguay de la gente

CONTRATISTA

ECOMIPA

CRONOGRAMA FISICO FINANCIERO - CONVENIO MODIFICATORIO CM 04 - Reprogramación

PLAZO

Ítem	Descripción	30-jun-18	31-jul-18	31-ago-18	30-sep-18	31-oct-18	30-nov-18	31-dic-18	31-ene-19	28-feb-19	31-mar-19	30-abr-19	31-may-19	30-jun-19	31-jul-19	31-ago-19	30-sep-19	31-oct-19	30-nov-19	31-dic-19	31-ene-20	29-feb-20	31-mar-20	30-abr-20	31-may-20	30-jun-20	31-jul-20	31-ago-20	30-sep-20	31-oct-20	30-nov-20	31-dic-20	31-ene-21	28-feb-21	31-mar-21	30-abr-21	31-may-21	30-jun-21	31-jul-21	31-ago-21	30-sep-21	31-oct-21	30-nov-21	31-dic-21	31-ene-22	28-feb-22	31-mar-22	30-abr-22	31-may-22	24-jun-22
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
5.1.6	OBRAS COMPLEMENTARIAS																																																	
5.1.6.1	Drenaje de estribo						0.00121%	0.00129%	0.00005%	0.00005%	0.00130%	0.00130%	0.00130%	0.00130%																																				-0.03882%
5.1.6.2	Drenaje de tablero de caño galvanizado ϕ100mm								0.00003%	0.00003%	0.00003%	0.00003%	0.00003%	0.00003%	0.00003%																																			
5.1.6.3	Colchones Reno									0.00139%	0.00019%	0.00019%	0.00685%	0.00685%	0.00685%	0.00685%																																		
5.1.6.4	Gaviones									0.00874%	0.00050%	0.00050%	0.00974%	0.00974%	0.00974%	0.00974%																																		
5.1.6.5	Juntas de Dilatación								0.01134%	0.00042%	0.00042%	0.01162%	0.01162%	0.01162%	0.01162%																																			
ITEM 6	OBRAS COMPLEMENTARIAS																																																	
6.1	Construcción de alambrados																					0.00304%	0.00462%	0.00537%	0.00507%	0.00466%	0.00450%	0.00339%	0.00397%	0.00397%												0.00375%	0.00397%			0.00233%	0.00233%	0.00233%		0.01338%
6.2	Cordón común de hormigón																			0.00254%	0.00254%	0.00508%	0.00508%			0.00508%	0.00508%	0.00254%	0.00254%	0.00508%			0.00485%	0.00328%								0.00557%	0.02098%	0.00948%	0.01554%		0.00460%	0.02844%	0.02723%	0.01272%
6.3	Señalización Vertical																																															0.07050%	0.07050%	0.01269%
6.4	Señalización Horizontal																																														0.04486%	0.11216%	0.11216%	0.10132%
6.5	Pórtico para Señalización																																																	0.03535%
6.7	Tachas retroreflectivas pequeñas																																															0.05608%	0.05608%	0.04811%
6.8	Tachas retroreflectivas grandes																																														0.00801%	0.00801%	0.00801%	0.01538%
6.9.1	Revestimiento vegetal en taludes													0.04601%	0.04878%	0.05628%	0.05628%	0.05253%	0.04878%	0.07457%	0.05732%	0.06501%	0.07598%			0.07598%	0.04221%	0.02533%	0.02673%	0.03588%	0.02240%	0.02111%	0.04754%	0.03166%	0.00211%	0.01787%	0.09012%	0.01139%	0.01139%	0.03929%	0.04698%	0.05083%	0.04504%	0.06965%	0.06063%				0.08795%	0.23070%
6.9.2	Revestimiento vegetal en contrataludes														0.03097%	0.03574%	0.03574%	0.03336%	0.03097%	0.04861%																														-0.21540%
6.11	Dársenas para parada de buses																															0.01153%	0.01153%	0.01153%	0.02307%	0.02307%	0.02307%	0.01153%	0.00016%	0.00016%	0.02619%	0.01567%	0.01212%	0.03393%	0.02423%	0.02423%	0.02423%	0.02423%	0.01454%	
6.12	Mojones de kilometraje																																																	
6.13	Muro de Hormigón Ciclópeo																												0.00763%	0.00855%	0.00503%	0.00921%												0.15681%	0.02563%	0.02851%	0.02851%	0.01901%	0.01901%	
6.14	Barandas de Defensa metálica																																			0.06404%	0.32022%	0.25617%	0.05139%	0.05139%	0.17412%	0.17412%		0.05710%	0.07294%	0.08927%	0.10349%	0.10349%	0.07494%	
6.15	Gaviones																																																	
6.16	Colchones Reno																																																	
ITEM 7	MOVILIZACIÓN																																																	
7.1	Movilización e instalación del campamento	0.07052%	0.28206%	0.75988%	0.04392%	0.04392%	0.40010%	0.40010%	0.40010%	0.40010%																																								
7.2	Instalación y servicios especializados	0.04077%	0.16342%	0.01422%	0.01050%	0.00785%	0.01475%	0.01581%	0.01475%	0.01422%	0.01316%	0.01209%	0.00785%	0.01581%	0.01369%	0.01581%	0.01581%	0.01475%	0.01369%	0.01581%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%	0.02614%		0.05092%			0.04243%	0.05092%		
ITEM 8	PLAN DE GESTIÓN AMBIENTAL																																																	
8.1	Implementación de PGA				0.02693%						0.00954%	0.00786%	0.01722%				0.01138%						0.01674%						0.01667%						0.01722%	0.01722%		0.00684%	0.00786%	0.01722%	0.01722%									
ITEM 9	SUMAS PROVISIONALES																																																	
	Trabajos por día													0.07891%	0.00034%	0.07891%																																		0.02619%
	Solución de controversias																																																	0.06145%
	ITEMS NUEVOS																																																	
1	…locación de nuevas columnas de línea eléctrica																			0.00991%	0.00991%	0.01895%	0.01896%	0.00991%	0.00991%	0.00991%	0.01896%	0.01896%	0.01896%	0.01896%	0.01896%	0.02350%	0.02350%	0.02350%		0.02077%									0.02763%	0.00553%	0.00829%	0.00829%	0.00553%	0.05803%
2.4	Excavación en roca																			0.03397%	0.03397%	0.06794%	0.06794%	0.03397%	0.03397%	0.03397%	0.06176%	0.06176%	0.06176%	0.06176%	0.06176%	0.06176%	0.06176%	0.06176%	0.02812%	0.06176%	0.06176%												0.00408%	0.02955%
5.1.6.4	Gaviones																																																0.01574%	0.01574%
6.24	Iluminación LED solar para rotondas																																											0.34097%		0.15944%	0.15944%	0.15944%	0.04967%	
11.1.2	Iluminación de avenida y Estacionamiento con vapor de sodio 400W																																														0.08247%	0.08247%	0.02474%	
4.2.4	Alcantarilla celular de Ho. Ao. 1 x 2,50x 2,50m (PASAGANADO)																																											0.03727%						0.00183%
	PUENTE N°4 – PUENTE SOBRE ARROYO YACUI MINI (Prog. 70+343)																																																	
5.1.1	MOVIMIENTO DE SUELOS																																																	
5.1.1.1	Excavación estructural en suelo																			0.00830%																														
5.1.1.2	Excavación estructural en roca																			0.00690%																														
5.1.2	FUNDACIONES																																																	
4.11	Relleno Granular																			0.00268%																														
5.1.3.9	Hormigón de regularización Fck 15 Mpa																			0.00366%																														
5.1.2.1	Zapatas																			0.07060%																														
5.1.3	HORMIGÓN ESTRUCTURAL																																																	
5.1.3.4-1	Pilas de Ho. Ao. (Fck 25 MPa)																			0.06890%	0.06890%																													
5.1.3.4-	Pórticos de Ho. Ao. (Fck 25 MPa)																					0.01851%																												
5.1.3.4-	Alas de Ho. Ao. (Fck 25 MPa)																					0.00861%																												
5.1.3.4-	Mensulas Porticos de Ho. Ao. (Fck 25 MPa)																						0.02854%																											
5.1.3.5-	Vigas longitudinales prefabricadas pretensadas (Fck 40 MPa)																						0.15281%																											
5.1.3.6	Losa de Ho. Ao (Fck 25 MPa) Incluye losa de aproxim y de continuida																							0.02518%	0.02518%			0.02518%																0.00812%						
5.1.3.7	Vigas transversales de Ho. Ao (Fck 25 MPa)																							0.00884%	0.00831%																									0.00053%
5.1.3.9-	Hormigón de regularización Fck 15 Mpa para asiento de Gaviones																						0.00336%	0.00336%	0.00336%	0.00336%																								
5.1.4	ACCESORIOS PREFABRICADOS																																																	
5.1.4.3	Separador New Jersey lateral																									0.01441%	0.01441%																							
5.1.5	APARATO DE APOYO ELASTOMERICOS																																																	
5.1.5.1	Aparatos de apoyo																							0.02300%																										
5.1.5.1.A	Material compresible e impermeable (espuma de Etil Vinil Acetato (E																								0.00028%																									0.00001%
5.1.5.1.B	Neoprene de 0,65 cm espesor y 65 cm x variable																																																	0.00175%
5.1.6	OBRAS COMPLEMENTARIAS																																																	
5.1.6.2	Drenaje de tablero de caño galvanizado ϕ100mm																																												0.00009%					0.00010%
5.1.6.2.E	Drenes detrás de Viga extrema																																											0.00081%					0.00086%	
5.1.6.3	Colchones Reno																																											0.01442%	0.01442%	0.01442%	0.01442%	0.01442%	0.01442%	
5.1.6.4.A	Gaviones c/Terramesh incluida Geogrilla																						0.07834%	0.15668%	0.13594%	0.15668%	0.07834%	0.04559%																						0.02074%
	PUESTO DE PEAJE (Prog. 69+560 a 69+852)																																																	
1.1	Despeje y limpieza de la franja																																																		
2.5	Terraplén																																																	
3	ESTRUCTURA DE PAVIMENTO																																																	
3.1	Sub Base de Suelo Agregado																										0.00142%																							
3.2	Base de Piedra Triturada																										0.00204%																							
3.3	Imprimación asfáltica																																																	0.00047%
3.4	Riego de liga																																																	0.00209%
	Carpeta de concreto asfáltico																																																	0.02475%
	Base de concreto asfáltico																																																	0.01590%
	…ORMIGONES																																																	
3	…vimento de Hormigón																																	0.05094%	0.03907%															0.01191%
3.1	…avimento de Adoquines Intertrabados																																	0.00420%	0.00420%															
4.5	Cuneta revestida de hormigón																																																	0.00018%
6.2	Cordón común de hormigón																																													0.00029%	0.00029%	0.00029%	0.00029%	0.00024%
6.17	Cordón de Ho.Ao. Para guardarruedas																																												0.00013%	0.00016%	0.00016%	0.00016%	0.00016%	0.00016%
6.18	Camineros de Ho para accesos																																													0.00011%	0.00023%	0.00030%	0.00030%	0.00015%
6.19	Separador New Jersey de Hormigón																																			0.03923%	0.03923%													
	OBRAS COMPLEMENTARIAS																																																	
6.20	Vallado de seguridad con tejido de alambre																										0.00220%																							0.00332%
6.3	Señalización Vertical																																															0.00703%	0.00703%	0.00730%
6.4	Señalización Horizontal																																															0.00149%	0.00149%	0.00195%
6.7	Tachas retroreflectivas pequeñas																																														0.00089%	0.00089%	0.00089%	0.00022%
6.8	Tachas retroreflectivas grandes																																														0.00112%	0.00112%	0.00112%	0.00099%
6.5	Pórticos para señalización																																																	0.04207%
6.21	Franjas reductoras de velocidad con pintura termoplástica																																														0.00075%	0.00075%	0.00078%	
6.14	Barandas de Defensa metálica																																			0.00682%	0.00659%													0.00023%
6.23	Obras Civiles																										0.17514%	0.17514%	0.17514%	0.17514%	0.17514%	0.17514%	0.17514%	0.11347%	0.11347%	0.11347%	0.11347%	0.11347%	0.06167%				0.00589%		0.46523%					0.00857%
	DÁRSENA DE BÁSCULA MÓVIL (Prog. 50+151)																																																	
1.1	Despeje y limpieza de la franja																																																	
2.5	Terraplén																																																	
3	ESTRUCTURA DE PAVIMENTO																																																	
3.1	Sub Base de Suelo Agregado																																0.02997%																	
3.2	Base de Piedra Triturada																																0.07982%																	
3.3	Imprimación asfáltica																																0.00471%										0.00028%						
	HORMIGONES																																																	
3.11	Pavimento de Hormigón																																	0.05189%	0.05140%															0.00048%
3.12	Pavimento de Adoquines Intertrabados																																												0.01538%		0.01846%			
4.5	Cuneta revestida de hormigón																																																	0.00102%
6.17	Cordón de Ho.Ao. Para guardarruedas																																																0.00080%	0.00064%
	OBRAS COMPLEMENTARIAS																																																	
6.9.1	Revestimiento vegetal en taludes																																																	0.00243%
6.3	Señalización Vertical																																														0.00141%	0.00141%	0.00153%	
6.4	Señalización Horizontal																																														0.00037%	0.00037%	0.00033%	
6.7	Tachas retroreflectivas pequeñas																																														0.00030%	0.00030%	0.00030%	0.00010%
6.22	Postes de Hormigón para señalización																																														0.00256%	0.00256%	0.00171%	
6.14	Barandas de Defensa metálica																																														0.00457%	0.00571%	0.00571%	0.00428%
4.1.2	Alcantarilla tubular de Ho. Ao. ϕ0,60m																														0.00159%																			
	MARCACIONES																																																	
6.1.3	Marcación para playa de pesaje																																												0.00076%	0.00077%	0.00077%	0.00077%	0.00019%	
11	INSTALACIONES																																																	
11.1	INSTALACIONES ELÉCTRICAS																																																	
11.1.1	Tablero gral con puesta a tierra del sistema																																						0.00046%											
11.1.2	Iluminación de avenida y Estacionamiento con vapor de sodio 400W																																					0.01649%	0.01649%											
11.1.3	Cruce de cañerías PVC 75 mm - Para Iluminación Dársena																																																	0.00417%
11.1.4	Registros de inspección																																																	0.00130%

SHINICHI KASHIMA
Gerente de Proyecto
CONSORCIO CENTRAL YACHIYO

Ing. PABLO L. SILVA S.
Jefe UEP JICA PG-P17
D.V. - M.O.P.C.

ECOMIPA S.A.
Jorge Luis Oyola
Representante Legal

FISCALIZACIÓN

CONSORCIO CENTRAL - YACHIYO

Ministerio de OBRAS PÚBLICAS Y COMUNICACIONES

GOBIERNO NACIONAL

Paraguay de la gente

CONTRATISTA

ECOMIPA

CRONOGRAMA FISICO FINANCIERO - CONVENIO MODIFICATORIO CM 04 - Reprogramación

Item	Descripción	25-jun-18	25-jul-18	25-ago-18	25-sep-18	25-oct-18	25-nov-18	25-dic-18	25-ene-19	25-feb-19	25-mar-19	25-abr-19	25-may-19	25-jun-19	25-jul-19	25-ago-19	25-sep-19	25-oct-19	25-nov-19	25-dic-19	25-ene-20	25-feb-20	25-mar-20	25-abr-20	25-may-20	25-jun-20	25-jul-20	25-ago-20	25-sep-20	25-oct-20	25-nov-20	25-dic-20	25-ene-21	25-feb-21	25-mar-21	25-abr-21	25-may-21	25-jun-21	25-jul-21	25-ago-21	25-sep-21	25-oct-21	25-nov-21	25-dic-21	25-ene-22	25-feb-22	25-mar-22	25-abr-22	25-may-22	25-jun-22
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
	DÁRSENA DE BÁSCULA MÓVIL (Prog. 69+234)																																																	
1.1	Despeje y limpieza de la franja																																																	
2.5	Terraplén																																																	
3	**ESTRUCTURA DE PAVIMENTO**																											0.03740%																							
3.1	Sub Base de Suelo Arenado																											0.01236%																							
3.2	Base de Piedra Triturada																											0.00452%																				0.00035%	0.00038%				
3.3	Imprimación asfáltica																																																	0.00126%
	HORMIGONES																												0.05230%	0.01104%																					0.00023%
3.11	Pavimento de Hormigón																													0.03382%																					0.00118%
3.12	Pavimento de Adoquines Intertrabados																														0.00139%																				0.00035%
4.5	Cuneta revestida de hormigón																																																	0.00375%
6.17	Cordón de Ho Ao. Para guardaruedas																																																	0.00141%	0.00141%	0.00353%
	OBRAS COMPLEMENTARIAS																																																	0.00037%	0.00037%	0.00233%
6.9.1	Revestimiento vegetal en taludes																																																	0.00030%	0.00030%	0.00030%
6.3	Señalización Vertical																																																	0.00256%	0.00256%	0.00171%
6.4	Señalización Horizontal																																																		0.00114%
6.7	Tachas retroreflectivas pequeñas																																0.01913%																	
6.22	Postes de Hormigón para señalización																																																	
6.14	Barandas de Defensa metálica																																																	
4.1.1	Alcantarilla tubular de Ho. Ao. 2@0,30m																																																	0.00038%	0.00057%	0.00067%	0.00067%	0.00067%	0.00048%
	MARCACIONES																																																		
6.1.3	Marcación para playa de peaje																																																	
11	**INSTALACIONES**																																																	
11.1	**INSTALACIONES ELÉCTRICAS**																																	0.00045%																
11.1.1	Tablero gral con puesta a tierra del sistema																																0.01649%	0.01649%																
11.1.2	Iluminación de avenida y Estacionamiento con vapor de sodio 400W																																																	0.03209%
11.1.3	Cruce de calzadas PVC 75 mm - Para iluminación Dársena																																																	
11.1.4	Registros de inspección																																																	
10	**LIBERACION DE LA FRANJA DE DOMINIO**																							0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.07817%	0.63197%
	Indemnización por mejoras existentes	0.29111%																																																2.02204%
	Indemnización por terrenos	0.43830%																																																
	Avance Mensual [A]	0.83%	0.45%	0.78%	0.22%	0.32%	1.32%	1.80%	2.33%	2.62%	2.25%	2.26%	1.50%	3.07%	2.43%	3.11%	3.22%	2.86%	2.58%	3.21%	2.49%	2.49%	2.55%	2.46%	2.35%	2.70%	2.99%	3.06%	3.16%	3.47%	3.51%	2.95%	2.61%	2.56%	2.58%	2.69%	2.86%	2.59%	2.63%	2.74%	2.96%	2.93%	1.55%	3.36%	1.43%	0.92%	1.68%	2.17%	1.61%	6.76%
	Avance Acumulado	0.83%	1.28%	2.06%	2.28%	2.60%	3.92%	5.72%	8.05%	10.67%	12.93%	15.18%	16.68%	19.75%	22.18%	25.28%	28.51%	31.37%	33.95%	37.16%	39.65%	42.13%	44.68%	47.14%	49.49%	52.19%	55.18%	58.24%	61.39%	64.86%	68.37%	71.32%	73.93%	76.49%	79.07%	81.75%	84.61%	87.20%	89.83%	92.57%	95.53%	98.44%	99.99%	103.36%	104.72%	105.64%	107.32%	109.48%	111.12%	117.89%

ECOMIPA S.A.
Jorge Luis Oyola
Representante Legal

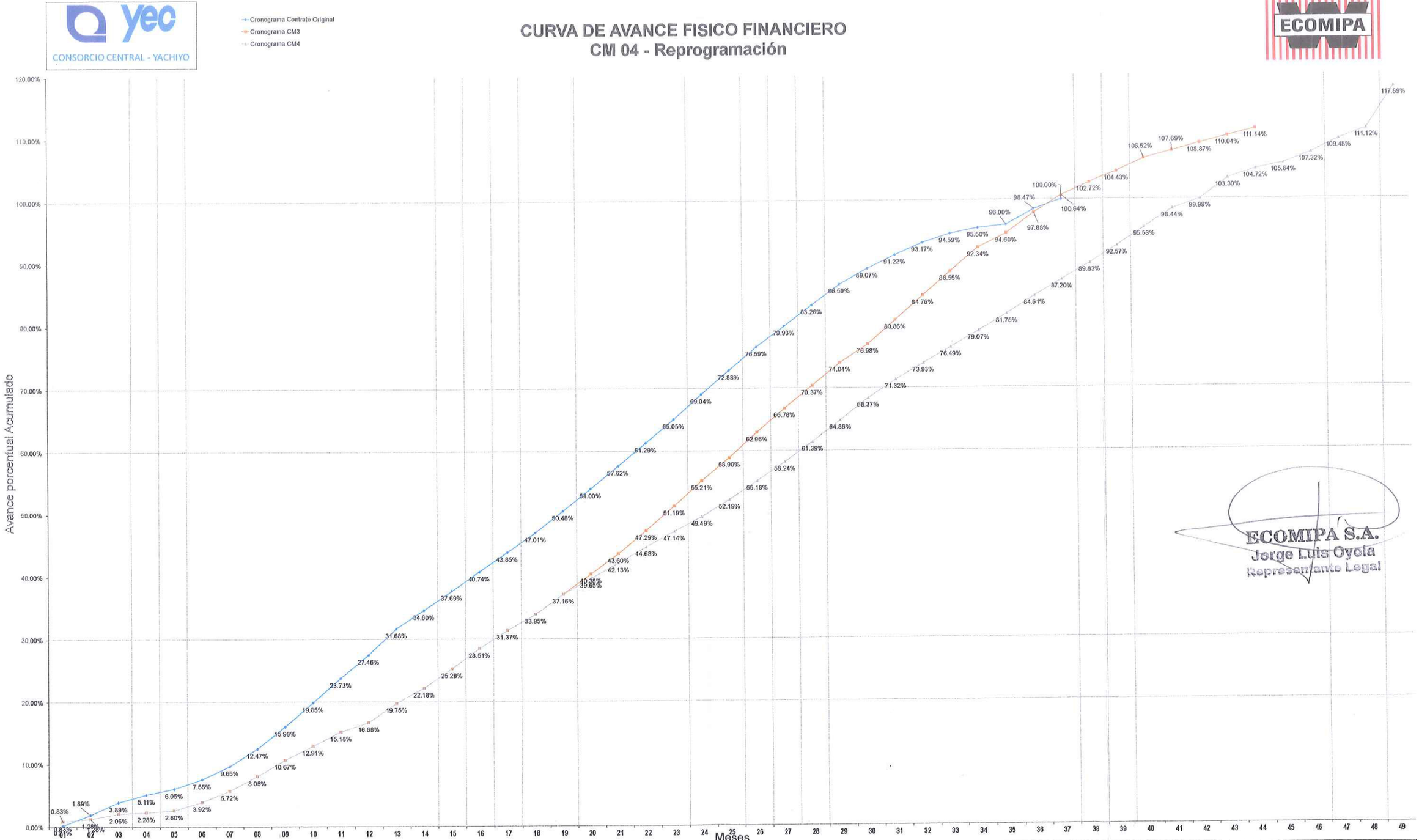
SHINICHI KASHIMA
Gerente de Proyecto
CONSORCIO CENTRAL YACHIYO

Ing. PABLO L. SILVA S.
Jefe UEP JICA PG-P17
D.V. - M.O.P.C.

CONSORCIO CENTRAL - YACHIYO

ECOMIPA

CURVA DE AVANCE FISICO FINANCIERO
CM 04 - Reprogramación



Certificado Nº	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
Meses	jun/18	jul/18	ago/18	sep/18	oct/18	nov/18	dic/18	ene/19	feb/19	mar/19	abr/19	may/19	jun/19	jul/19	ago/19	sep/19	oct/19	nov/19	dic/19	ene/20	feb/20	mar/20	abr/20	may/20	jun/20	jul/20	ago/20	sep/20	oct/20	nov/20	dic/20	ene/21	feb/21	mar/21	abr/21	may/21	jun/21	jul/21	ago/21	sep/21	oct/21	nov/21	dic/21	ene/22	feb/22	mar/22	abr/22	may/22	jun/22
PARCIAL (Contrato Original)	0.21%	1.68%	2.00%	1.22%	0.94%	1.50%	2.09%	2.82%	3.51%	3.87%	3.88%	3.72%	4.23%	2.91%	3.09%	3.06%	3.10%	3.16%	3.47%	3.52%	3.62%	3.57%	3.76%	3.99%	3.84%	3.71%	3.34%	3.33%	3.33%	2.47%	2.16%	1.95%	1.42%	0.91%	0.50%	2.47%	1.53%													
ACUMULADO (Contrato Original)	0.21%	1.89%	3.89%	5.11%	6.05%	7.55%	9.65%	12.47%	15.98%	19.85%	23.73%	27.46%	31.68%	34.60%	37.69%	40.74%	43.85%	47.01%	50.48%	54.00%	57.62%	61.29%	65.05%	69.04%	72.88%	76.59%	79.93%	83.26%	86.59%	89.07%	91.22%	93.17%	94.59%	95.50%	96.00%	98.47%	100.00%													
PARCIAL (CM3)	0.83%	0.45%	0.78%	0.22%	0.32%	1.32%	1.80%	2.33%	2.62%	2.25%	2.26%	1.50%	3.07%	2.43%	3.11%	3.22%	2.86%	2.58%	3.21%	3.22%	3.22%	3.59%	3.91%	4.02%	3.69%	4.07%	3.82%	3.58%	3.67%	2.95%	3.88%	3.90%	3.79%	3.78%	2.26%	3.28%	2.76%	2.08%	1.72%	2.09%	1.17%	1.17%	1.17%	1.10%					
ACUMULADO (CM3)	0.83%	1.28%	2.06%	2.28%	2.60%	3.92%	5.72%	8.05%	10.67%	12.91%	15.18%	16.68%	19.75%	22.18%	25.28%	28.51%	31.37%	33.95%	37.16%	40.38%	43.60%	47.29%	51.19%	55.21%	58.90%	62.96%	66.78%	70.37%	74.04%	76.98%	80.86%	84.76%	88.55%	92.34%	94.60%	97.88%	100.64%	102.72%	104.43%	106.52%	107.69%	108.87%	110.04%	111.14%					
PARCIAL (CM4)	0.83%	0.45%	0.78%	0.22%	0.32%	1.32%	1.80%	2.33%	2.62%	2.25%	2.26%	1.50%	3.07%	2.43%	3.11%	3.22%	2.86%	2.58%	3.21%	2.49%	2.49%	2.55%	2.46%	2.35%	2.70%	2.99%	3.06%	3.16%	3.47%	3.51%	2.95%	2.61%	2.56%	2.58%	2.69%	2.86%	2.59%	2.63%	2.74%	2.96%	2.91%	1.55%	3.30%	1.43%	0.92%	1.68%	2.17%	1.64%	6.76%
ACUMULADO (CM4)	0.83%	1.28%	2.06%	2.28%	2.60%	3.92%	5.72%	8.05%	10.67%	12.91%	15.18%	16.68%	19.75%	22.18%	25.28%	28.51%	31.37%	33.95%	37.16%	39.65%	42.13%	44.68%	47.14%	49.49%	52.19%	55.18%	58.24%	61.39%	64.86%	68.37%	71.32%	73.93%	76.49%	79.07%	81.75%	84.61%	87.20%	89.83%	92.57%	95.53%	98.44%	99.99%	103.30%	104.72%	105.64%	107.32%	109.48%	111.12%	117.89%

ECOMIPA S.A.
Jorge Luis Oyola
Representante Legal

SHINICHI KASHIMA
Gerente de Proyecto
CONSORCIO CENTRAL YACHIYO

Ing. PABLO L. SILVA S
Jefe UEP JICA PG-P17
D.V. - M.O.P.C