

THE REPUBLIC OF ECUADOR

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Centro de Rehabilitación de Manabí

WATER TRANSBASIN PROJECT FOR CHONE-PORTOMIJO RIVER BASINS

TENDER DOCUMENTS
FOR
CONSTRUCTION OF CIVIL WORKS
PACKAGE 1

DIABLO-PIRENEA-DABES-REBANZA TRANS BASIN

VOLUME - III
FORMS

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WATER TRANSBASIN PROJECT FOR CHONE - PORTOVIEJO RIVER BASINS

TENDER DOCUMENTS
FOR
CONSTRUCTION OF CIVIL WORKS

PACKAGE 1

DAULE - PERIPA ~ LA ESPERANZA TRANSBASIN

VOLUME - II

FORMS

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- PRESENTATION AND COMMITMENT LETTER
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 - VALUED SCHEDULE
 - BREAKDOWN ON UNIT PRICE
 - CAMP AREA AND TEMPORARY INSTALLATIONS
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 - EQUIPMENT LIST AND RENTAL RATE
 - SCHEDULE OF MANPOWER
 - EQUIPMENT TO BE USED IN THE WORK FRONTS
 - LIST OF SUB-CONTRACTORS PARTICIPATE IN THE CONTRACT
-

MARCH 1995



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REPUBLIC OF ECUADOR

ECF LOAN No. _____

CENTRO DE REHABILITACION DE MANABI

CRM

WATER TRANSBASIN PROJECT
FOR
CHONE-PORTOVIEJO RIVER BASINS

INTERNATIONAL TENDERING No. _____

CONSTRUCTION OF CIVIL WORKS

PACKAGE 1

DAULE-PERIPA-LA ESPERANZA TRANSBASIN

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PRESENTATION AND COMMITMENT LETTER

Gentlemen
Centro de Rehabilitación de Manabí
Portoviejo

REF.: PRESENTATION AND COMMITMENT LETTER

The undersigned _____
(Name of the Legal or Sole Representative)

Representative of _____
(Name of the Firm or Constituted Association)

domiciled in _____

interested in participating in the Tendering No. _____, I present the required documentation, according to the instructions contained in the Tender Documents received from CRM, in order to participate in the Tendering for the Construction of the Civil Works, Package 1; Daule-Peripa-La Esperanza Transbasin of the Water Transbasin Project for Chone-Portoviejo River Basins.

The Representative undersigned, acting for and on behalf of

(Denomination of the Firm or Association)

- (1) Declares to have thoroughly examined the Tender Documents, and accepts to obey to the requirements and other conditions of these Documents.
- (2) Guarantees the truthfulness and accuracy of all the declarations and answers done in the attached Documents.
- (3) Authorizes CRM or to whom it may delegate, to carry out investigations to prove the truthfulness of the declarations and Documents submitted and for obtaining clarifications and information about the technical and economical conditions of this Firm or Association.
- (4) Accepts unconditionally CRM's decision about the Tendering and waives to any claim, as tendered when submitting this Tender and in case to result as granted will sign the Contract in the date when the term is due for the revision of the report provided in the Law presenting for the celebration of the Contract and the Bonds required by the Law.

- (5) Waives expressly to use the diplomatic ways, for any matter related to the Tendering.
- (6) Besides manifests that has visited the Project sites and that has verified the natural conditions, the existing access roads, and the other factors that could influence the costs of the Tender; and that knows and becomes subject to the prevailing Laws of Ecuador.

The address and domicile of the Tenderer in Ecuador, for matters related with this Tender, to which CRM can send its correspondence, is as follows:

In case of an Association, include the following paragraphs:

Address:
Postal:
Cable:
Telex:
Fax:
Telephone:

The Association that presents the documentation attached herewith is composed of the following firms:

- a.
- b.
- c.
- d.

Accepts that the responsibility of each one of the member Firms of the Association will be indivisible and solidly, and is subject to the prevailing Laws of Ecuador.

Place and Date

Legal Representative

TENDER BOND

WHEREAS _____
(hereinafter called "the Tenderer") has presented his proposal dated _____ for
the Construction of Civil Works, Package 1: Daule-Peripa-La Esperanza Transbasin of the
Water Transbasin Project for Chone-Portoviejo River Basins (hereinafter called "the
Tender") BY THE PRESENT we leave on record that _____
_____ of

_____ with legal domicile in _____ (hereinafter called "the Bank")
has committed in an obligation with Centro de Rehabilitación de Manabí (hereinafter called
"CRM") for the amount of _____ whose payment in due form will be
made to CRM by the Bank to its successors or cessionaries, in accordance with this
document.

Issued and signed with the seal of this Bank on the _____ of
_____ of 199__.

The present obligation is subject to the following conditions:

- (1) If the Tenderer withdraws its Tender during the stipulated validity period in the Tender Form; or
- (2) If the Tenderer, after being notified of the acceptance of his Tender by CRM during the validity period of the same.
 - (a) Does not sign the contract
 - (b) Does not provide the performance bond, in accordance with the Instructions to the Tenderers.

We, the undersigned, are obliged to pay to CRM up to the total amount indicated on delivery of its first requirement by writing, without CRM having to justify such requirement: CRM will have to notify that the amount required is the amount owed, by reason of one or both of the conditions specified before and will indicate expressly the condition that has been complied.

This bond will stay in force up to thirty (30) days after the validity period of the Tender, and all requirements related to it must be received by the Bank at the latest on that date.

Signature of the Bank

Signature of the Witness

Name of the Witness _____

Address of the Witness _____

FORM No. 3
(Page 1/3)

VALUED SCHEDULE

TENDERER: _____
EXECUTION TERM: _____

WORK AMOUNT: _____
STARTING DATE: _____

WORK DESCRIPTION	TOTAL PRICE	% OF TOTAL COST	MONTHLY VALUES PER ITEM IN SUCRES AND FOREIGN CURRENCY MONTHS ACCOUNTED FROM THE COMMENCEMENT ORDER																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
TOTAL COST																				
TOTAL PROGRESS (% ACCUMULATED)																				
ACCUMULATED INVESTMENTS IN THOUSAND SUCRES																				

NOTE: All the registered items must be included in the Summary of Bill of Quantities.

Place and date

Legal Representative

VALUED SCHEDULE

TENDERER: _____
EXECUTION TERM: _____

WORK AMOUNT: _____
STARTING DATE: _____

WORK DESCRIPTION	TOTAL PRICE	% OF TOTAL COST	MONTHLY VALUES PER ITEM IN SUCRES AND FOREIGN CURRENCY MONTHS ACCOUNTED FROM THE COMMENCEMENT ORDER																				
			19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36			
TOTAL COST																							
TOTAL PROGRESS (% ACCUMULATED)																							
ACCUMULATED INVESTMENTS IN THOUSAND SUCRES																							

NOTE: All the registered items must be included in the Summary of Bill of Quantities.

_____ Place and date

_____ Legal Representative

VALUED SCHEDULE

TENDERER: _____
EXECUTION TERM: _____

WORK AMOUNT: _____
STARTING DATE: _____

WORK DESCRIPTION	TOTAL PRICE	% OF TOTAL COST	MONTHLY VALUES PER ITEM IN SUCRES AND FOREIGN CURRENCY MONTHS ACCOUNTED FROM THE COMMENCEMENT ORDER																	
			37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
TOTAL COST																				
TOTAL PROGRESS (% ACCUMULATED)																				
ACCUMULATED INVESTMENTS IN THOUSAND SUCRES																				

NOTE: All the registered items must be included in the Summary of Bill of Quantities.

Place and date

Legal Representative

BREAKDOWN OF UNIT PRICE

I. EQUIPMENT								
DESCRIPTION	TYPE	QUANTITY	HOURLY COST		PERFORMANCE PER HOUR	UNIT COST		%
			SUCRES	C.F.C.		SUCRES	C.F.C.	
SUB - TOTAL I								

II. MATERIALS								
DESCRIPTION	UNIT	QUANTITY	COST		QUANTITY	UNIT COST		%
			SUCRES	C.F.C.		SUCRES	C.F.C.	
SUB - TOTAL II								

C.F.C. = COMPONENT IN FOREIGN CURRENCY

BREAKDOWN OF UNIT PRICE

III. LABOUR										
DESCRIPTION	QUANTITY	WORKDAY BASICH	WEIGHT FACTOR	BONUS	SUB-TOTAL		PERFORMANCE PER HOUR	UNIT COST		%
					SUCRES	C.F.C.		SUCRES	C.F.C.	
							SUB - TOTAL III			
V. INDIRECT COSTS										
IV. TOTAL DIRECT COST										
SUB - TOTAL VI										
TOTAL UNIT COST										
SUCRES										
FOREIGN CURRENCY										

C.F.C. 1 = S/ _____

**CAMP AREA AND TEMPORARY
INSTALLATIONS**

**AREA REQUIRED FOR CONSTRUCTION CAMPS OF THE
CONTRACTOR AND TEMPORARY INSTALLATIONS**

**Detail the main characteristics of the following items of the Bill of
Quantities**

I/01	I/02	I/03
I/04	I/05	I/09

Note: The detail must be done in pages duly signed by the Legal Representative

SUMMARY OF BILL OF QUANTITIES

Item No.	Description	Foreign Currency (CFC)	Local Currency (S/.)	Total Equivalent Price (S/.)
1.	GENERAL ITEMS	CFC	S/.	S/.
2.	DAULE-PERIPA-LA ESPERANZA DIVERSION TUNNEL			
2.1	CARE OF RIVER AND CONTROL AND REMOVAL OF WATER	CFC	S/.	S/.
2.2	EARTH WORKS	CFC	S/.	S/.
2.3	DRILLING AND GROUTING WORKS	CFC	S/.	S/.
2.4	CONCRETE WORKS	CFC	S/.	S/.
2.5	MISCELLANEOUS METAL WORKS	CFC	S/.	S/.
2.6	CONVERGENCE MEASUREMENTS	CFC	S/.	S/.
2.7	BUILDING WORKS OF CONGUILLO INLET SUPERSTRUCTURE	CFC	S/.	S/.
2.8	ELECTRICAL WORKS	CFC	S/.	S/.
2.9	MISCELLANEOUS	CFC	S/.	S/.
	TOTAL OF ITEM 2	CFC	S/.	S/.

SUMMARY OF BILL OF QUANTITIES

Item No.	Description	Foreign Currency (CFC)	Local Currency (S/.)	Total Equivalent Price (S/.)
3.	CONGUILLO WORK ADIT			
3.1	EARTH WORKS	CFC _____	S/ _____	S/ _____
3.2	CONCRETE WORKS	CFC _____	S/ _____	S/ _____
	TOTAL OF ITEM 3	CFC _____	S/ _____	S/ _____
4.	EL GUASMO WORK ADIT			
4.1	EARTH WORKS	CFC _____	S/ _____	S/ _____
4.2	CONCRETE WORKS	CFC _____	S/ _____	S/ _____
	TOTAL OF ITEM 4	CFC _____	S/ _____	S/ _____
5.	MEMBRILLO WORK ADIT			
5.1	EARTH WORKS	CFC _____	S/ _____	S/ _____
5.2	CONCRETE WORKS	CFC _____	S/ _____	S/ _____
	TOTAL OF ITEM 5	CFC _____	S/ _____	S/ _____

SUMMARY OF BILL OF QUANTITIES

Item No.	Description	Foreign Currency (CFC)	Local Currency (S/.)	Total Equivalent Price (S/.)
6.	CONGUILLO ACCESS ROAD			
6.1	EARTH WORKS	CFC	S/.	S/.
6.2	EXCAVATION AND FILLING FOR STRUCTURES	CFC	S/.	S/.
6.3	CULVERT AND DRAINAGE WORKS	CFC	S/.	S/.
6.4	CONCRETE WORKS	CFC	S/.	S/.
6.5	PAVEMENT	CFC	S/.	S/.
6.6	MISCELLANEOUS	CFC	S/.	S/.
	TOTAL OF ITEM 6	CFC	S/.	S/.
7.	EL GUASMO ACCESS ROAD			
7.1	EARTH WORKS	CFC	S/.	S/.
7.2	EXCAVATION AND FILLING FOR STRUCTURES	CFC	S/.	S/.
7.3	CULVERT AND DRAINAGE WORK	CFC	S/.	S/.
7.4	CONCRETE WORKS	CFC	S/.	S/.
7.5	PAVEMENT	CFC	S/.	S/.
7.6	MISCELLANEOUS	CFC	S/.	S/.
	TOTAL OF ITEM 7	CFC	S/.	S/.

SUMMARY OF BILL OF QUANTITIES

Item No.	Description	Foreign Currency (CFC)	Local Currency (S/.)	Total Equivalent Price (S/.)
8.	MEMBRILLO OUTLET ACCESS ROAD			
8.1	EARTH WORKS	CFC _____	S/ _____	S/ _____
8.2	EXCAVATION AND FILLING FOR STRUCTURES	CFC _____	S/ _____	S/ _____
8.3	CULVERT AND DRAINAGE WORK	CFC _____	S/ _____	S/ _____
8.4	CONCRETE WORKS	CFC _____	S/ _____	S/ _____
8.5	PAVEMENT	CFC _____	S/ _____	S/ _____
8.6	MISCELLANEOUS	CFC _____	S/ _____	S/ _____
	TOTAL OF ITEM 8	CFC _____	S/ _____	S/ _____
	GRAND TOTAL	CFC _____	S/ _____	S/ _____

SUMMARY OF BILL OF QUANTITIES

Item No.	Description	Foreign Currency (CFC)	Local Currency (S/.)	Total Equivalent Price (S/.)
----------	-------------	------------------------	----------------------	------------------------------

The Tenderer shall state the proportion of Ecuadorian Sucres and Japanese Yens for Payments.

Ecuadorian Sucres Portion	S/ _____	%
Japanese Yen Portion	¥ _____	%
		100 %

Rate of exchange of _____ (The date informed by the CRM)

One (1) Ecuadorian Sucre is equivalent to _____ Japanese Yens

Where,

S/ _____ = C.F.C. = ¥ _____

SUMMARY OF BILL OF QUANTITIES

Description of Works	Foreign Currency (US\$)	Local Currency (S/.)	Total Equivalent (S/.)
	Amount (4)	Amount (6)	Amount (8)
1. GENERAL ITEMS			
2. DAULE-PERIPA -LA ESPERANZA DIVERSION TUNNEL			
3. CONGUILLO WORK ADIT			
4. EL GUASMO WORK ADIT			
5. MEMBRILLO WORK ADIT			
6. CONGUILLO ACCESS ROAD			
7. EL GUASMO ACCESS ROAD			
8. MEMBRILLO OUTLET ACCESS ROAD			
GRAND TOTAL			

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
				(2)	(4)	(3)	(5)	(6)	(7)	(8)
1. GENERAL ITEMS										
/01	Construction, operation, * maintenance and subsequent removal of the Contractor's offices, staff quarters, repair shop, stores, laboratory buildings, motor pools, labour camps, etc., including land clearing, drainage and adequate fencing	A.4.3	L.S.							
/02	Installation, operation, * maintenance and subsequent removal of temporary water supply systems for and in the Contractor's offices, laboratory, staff quarters, repair shops, motor pools, etc., and construction site	A.4.4	L.S.							
/03	Installation, operation, * maintenance and subsequent removal of temporary electric power supply system to the Contractor's offices, laboratory,									

* Contractor estimate your needs, detailing your unit prices.

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	staff quarters, labour camps, repair shops, motor pools, etc., and construction site	A.4.5	L.S.							
/04	Installation, operation, * maintenance and subsequent removal of temporary telecommunication systems from the CRM's and Supervisor's offices to the Contractor's offices, quarters, etc., including wired telephone line, VHF radio communication system and handy talky	A.4.6	L.S.							
/05	Construction, operation, * maintenance and subsequent removal of the Contractor's temporary construction roads to the various working areas; maintenance of the existing roads including temporary supports to strengthen piers of the existing bridges, etc.	A.4.7	L.S.							
/06	Provision and maintenance of the laboratory equipment and furnitures including provision									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
/07	of necessary testing experts and labour to assist the Supervision Exploratory boring and excavation of test pits	A.5.1 A.4.12	Provisional sum Provisional sum							
/08	Monument and memorial	A.8.2	Provisional sum							
/09	Construction, operation * maintenance and subsequent hand over to CRM the Supervision's office, first aid building, residence and housing; including land clearing and development, water supply system, sewage and drainage system, electric power supply system, telecommunication system and adequate fencing									
/10	Provision, maintenance and subsequence hand over to CRM the Supervisions office furnitures such as desks, tables, shelves, etc.; office equipment such as computer, printer, etc.;	A.6.5	L.S.							

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	and survey equipment		sum							
/11	Provision, operation and maintenance of the first aid facilities and medicines including operation of medical services by one doctor, two nurses and one clerk	nil								
/12	Provision, operation and maintenance of vehicles for CRM and the Supervision	nil								
TOTAL OF ITEM 1										

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2.	DAULE-PERIPA-LA ESPERANZA DIVERSION TUNNEL									
2.1	CARE OF RIVER AND CONTROL AND REMOVAL OF WATER									
/01	Construction and removal of temporary coffering	B.1.4	L.S.							
/02	Care of water during construction in open air construction site	B.2.4	L.S.							
Subtotal of Item 2.1										
2.2	EARTH WORKS									
/01	Clearing the site for the inlet and outlet structures	C.2.3	m ²	7,150						
/02	Open-cut excavation, in common, for inlet and outlet structures, outlet channel and anchor block of trash boom	C.5.5	m ³	10,700						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/03	Open-cut excavation, in weathered rock, for inlet and outlet structures, outlet channel and anchor block of trash boom	C.5.5	m ³	22,500						
/04	Open-cut excavation, in rock, for inlet and outlet structures, outlet channel and anchor block of trash boom	C.5.5	m ³	400						
/05	Underground excavation, all classes, in tunnel and inlet structure	C.13.6	m ³	163,650						
/06	Trench excavation, all classes, for drain ditch, catch basin and foundation of wire net fence	C.6.2	m ³	120						
/07	Permanent steel supports, H-125 x 125 mm	C.14.3	ton	158						
/08	Permanent steel supports in inlet shaft, H-300 x 300 mm	C.14.3	ton	82						
/09	D.25 mm rock bolts	C.15.4	m	118,390						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/10	Backfilling for inlet and outlet structures and anchor block of trash boom	C.7.6	m ³	390						
/11	Gravel surfacing for inlet structure	C.7.6	m ³	103						
/12	Gravel bedding for drain ditch and catch basin	C.7.6	m ³	4						
/13	Sod facing for inlet and outlet structures	C.20.2	m ²	890						
/14	Gabion mattresses, 1 = 500 mm	C.18.2	m ³	60						
Subtotal of Item 2.2										
2.3	DRILLING AND GROUTING WORKS									
/01	D.45 mm drain holes in tunnel	D.8.3	m	6,310						
/02	Backfill grouting in tunnel and inlet structure	D.8.1	m ³	1,180						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
/03	D.50 mm steel pipes for backfill grouting in tunnel and inlet structure	D.8.2	kg	3,970						
/04	Contact grouting for concrete plug	D.8.1	kg	520						
/05	D.40 mm steel pipes for contact grouting	D.8.1	kg	596						
/06	D.25 mm steel pipes for contact grouting	D.8.1	kg	107						
Subtotal of Item 2.3										
2.4	CONCRETE WORKS									
/01	Concrete, class A, for blackout concrete of inlet structure	E.12	m ³	30						
/02	Concrete, class C, for floor slab, beam and stair of inlet structure	E.12	m ³	284						
/03	Concrete, class D, for inlet structure	E.12	m ³	2,720						
/04	Concrete, class D									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	for tunnel lining	E.12	m ³	50,650						
/05	Concrete, class E, for concrete facing walls of inlet and outlet structures	E.12	m ³	96						
/06	Concrete, class F, for drain ditch and catch basin	E.12	m ³	33						
/07	Concrete, class G, for plug and secondary concrete in inlet structure	E.12	m ³	733						
/08	Concrete, class G, for anchor block of trash boom and foundation concrete of wire net fence	E.12	m ³	201						
/09	Concrete, class H, for leveling concrete of drain ditch and catch basin	E.12	m ³	5						
/10	Formwork, F1 finish, for concrete of Items /03, /04, /05 and /07	E.13.8	m ²	612						
/11	Formwork, F1 finish, for concrete of Item /06	E.13.8	m ²	213						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/12	Formwork, F1 finish, for concrete of Item /08	E.13.8	m ²	83						
/13	Formwork, F2 finish, for concrete of Items /02, /03, /05 and /07	E.13.8	m ²	2,570						
/14	Formwork, F3 finish, for concrete of Items /01, /03, /05 and /07	E.13.8	m ²	877						
/15	Formwork, F3 finish, for concrete of Item /06	E.13.8	m ²	182						
/16	Formwork, F4 finish, for concrete of Item /04	E.13.8	m ²	74,260						
/17	Reinforcing bars for concrete works	E.14.3	ton	224						
/18	Shotcrete in tunnel and inlet structure	E.17.6	m ³	10,120						
/19	Steel wire mesh for Item /18	E.17.6	m ²	100,120						
/20	Shotcrete with wire mesh									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
	for cut slope protection, t= 100 mm	E.17.6	m ²	2,360						
/21	Shotcrete with wire mesh for cut slope protection, t= 50 mm	E.17.6	m ²	900						
/22	Anchor bars, D.25 mm for concrete facing wall	E.27.3	m	90						
/23	P.V.C. waterstop, type B (W= 200 mm)	E.22.4	m	72						
/24	Bituminous coating for contraction joint	E.25.2	m ²	71						
/25	P.V.C. pipe, D.50 mm for weephole	F.4.3	m	108						
/26	P.V.C. pipe, D.75 mm for drain	F.4.3	m	391						
/27	P.V.C. pipe, D.150 mm for drain	F.4.3	m	12						
Subtotal of Item 2-4										
2.5	MISCELLANEOUS									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
METAL WORKS										
/01	Embedded metal	H.13.2	kg	422						
/02	Steel pipe handrail in inlet structure	H.7.2	kg	2,100						
/03	Steel ladder with safety cage in inlet structure	F.8.2	kg	113						
/04	Steel step (round bar) in inlet structure	H.9.2	kg	326						
/05	Steel pipes for water level gauge in inlet structure	H.11.2	kg	756						
/06	Grating and hatch cover in inlet structure	H.10.2	kg	6,710						
/07	Wire net fence with gate	H.12.2	kg	100						
Subtotal of Item 2.5										
2.6	CONVERGENCE MEASUREMENTS									
/01	Measurement of horizontal									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	convergence	K.7	nos.	4,680						
/02	Measurement of diagonal convergence	K.7	nos.	4,680						
/03	Measurement of roof settlement	K.7	nos.	4,680						
/04	Measurement of invert upheaval	K.7	nos.	4,680						
/05	Stress measurement of rock bolts	K.7	nos.	975						
/06	Stress measurement of shotcrete	K.7	nos.	975						
/07	Stress measurement of steel supports	K.7	nos.	60						
Subtotal of Item 2.6										
2.7	BUILDING WORKS OF CONGUILLO INLET SUPERSTRUCTURE									

Concrete Works

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
/01	Concrete, class C, for structure	E.12	m ³	45						
/02	Concrete, class H, for covering concrete	E.12	m ³	5						
/03	Formwork, F1 finish, for concrete of Item /01	E.13.8	m ²	146						
/04	Formwork, F3 finish, for concrete of Item /01	E.13.8	m ²	223						
/05	Reinforcing bars for concrete works	E.14.3	ton	4.6						
Masonry Works										
/06	Hollow-concrete block to roof parapet, 100 mm thick including bonding cement mortar	I.6.2	m ²	13						
Bituminous Waterproof Roofing										
/7	3-ply built-up asphalt roofing on roof, including asphalt compound joint and required caulking	I.6.2	m ²	75						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
Plastering Works										
/08	Cement mortar plaster on floor	1.6.2	m ²	40						
/09	Base cement mortar plaster, 20 mm thick for built-up roofing on roof	1.6.2	m ²	62						
/10	Cement mortar plaster to interior skirting, H= 100 mm	1.6.2	m	35						
/11	Cement mortar plaster to exterior skirting, H= 200 mm	1.6.2	m	27						
/12	Cement mortar plaster to interior wall	1.6.2	m ²	146						
/13	Waterproof cement mortar plaster to parapet including metal wire lath	1.6.2	m ²	31						
/14	Waterproof cement mortar plaster to roof gutter including metal wire lath	1.6.2	m ²	8						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
Spray Tile Finish										
/15	Spray tile on exposed concrete	I.6.2	m ²	162						
Painting Works										
/16	Oil paint to metal surface	I.6.2	m ²	46						
Steel Doors										
/17	Steel door leaves and frames including louvers, required hardware, accessories and caulking to outside perimeter	I.6.2	m ²	15						
Aluminium Windows and Louvers										
/18	Aluminium windows and frames including required hardware, accessories and caulking	I.6.2	m ²	4						
/19	Aluminium louvers and frames including required hardware, accessories and caulking	I.6.2	m ²	2						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
Glazing Works										
/20	Clear wire glass t=6.8 mm	1.6.2	m ²	4						
Ventilation Works										
/21	Multiblade fan, 20160 CMH. 35 mm sq. 4 kW, 220 V, 3 φ, 60 Hz	1.6.2	nos.	1						
/22	Intake louver 1,800 x 1800 d=20160 CMH	1.6.2	nos.	1						
Ventilating Registers										
a.	UR-VHS, 400 x 200, Q=1480	1.6.2	nos.	12						
b.	UR-VHS, 200 x 150, Q=510	1.6.2	nos.	4						
c.	UR-VHS, 200 x 150, Q=180	1.6.2	nos.	2						
/24	Ventilating zinc plated steel									
a.	guagc 22	1.6.2	kg	450						
b.	guagc 24	1.6.2	kg	616						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
Subtotal of Item 2.7										
2.8	ELECTRICAL WORKS									
/01	Lighting panel	J.7	set	1						
/02	Type - A (FL 40 W x 2)	J.7	set	13						
/03	Type - B (FL 40 W x 1)	J.7	set	30						
/04	Type - F (IL 60 W x 1)	J.7	set	2						
/05	Convenience outlet (20 A - 127 V)	J.7	set	7						
/06	Tumber switch (10 A - 127 V)	J.7	set	7						
/07	Three way switch (10 A - 127 V)	J.7	set	6						
/08	Conduit pipe, D.16 mm (φ 1/2 ")	J.7	m	453						
/09	Conduit pipe, D.22 mm (φ 3/4 ")	J.7	m	75						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
/10	IV wire, 2.0 mm ² (TW 14 AWG)	J.7	m	980						
/11	IV wire, 3.5 mm ² (TW 12 AWG)	J.7	m	230						
/12	CV cable, 4C x 3.5 mm ² (4 x 12 AWG)	J.7	m	65						
/13	Copper conductor, 50 mm ² (1/0 AWG)	J.7	m	600						
/14	Copper conductor, 38 mm ² (2 AWG)	J.7	nos.	60						
Subtotal of Item 2.8										
2.9	MISCELLANEOUS									
/01	Trash boom	L.1.2	m	125						
/02	Dredging of the existing inlet channel of the Conguillo inlet	L.3.7	m ²	3,000						
/03	Staff gauge, D.100 mm steel pipe, H=20 m	L.2.2	L.S.							
Subtotal of Item 2.9										

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			

TOTAL OF ITEM 2 _____

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
3. CONGUILLO WORK ADIT										
3.1 EARTH WORKS										
/01	Clearing the site for adit portal	C.2.3	m ²	1,960						
/02	Open-cut excavation, in common, for adit portal	C.5.5	m ³	3,070						
/03	Open-cut excavation, in weathered rock, for adit portal	C.5.5	m ³	10,800						
/04	Open-cut excavation, in rock, for adit portal	C.5.5	m ³	570						
/05	Underground excavation, all classes, in adit	C.13.6	m ³	3,560						
/06	Trench excavation, all classes, for drain ditch and catch basin	C.6.2	m ³	40						
/07	Permanent steel support, H-125 x 125 mm	C.14.3	ton	11						
/08	D.25 mm rock bolts in adit tunnel	C.15.4	m	2,630						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
/09	Backfilling for adit portal	C.7.6	m ³	140						
/10	Backfilling for drain ditch and catch basin	C.7.6	m ³	14						
/11	Gravel surfacing	C.7.6	m ²	44						
/12	Gravel bedding for drain ditch and catch basin	C.7.6	m ³	1						
/13	Wet rubble masonry	C.19.2	m ³	10						
/14	Sod facing	C.20.2	m ²	230						
Subtotal of Item 3.1										
3.2	CONCRETE WORKS									
/01	Concrete, class D, for lining concrete of adit tunnel	E.12	m ³	611						
/02	Concrete, class E, for concrete facing walls and portal structure	E.12	m ³	27						
/03	Concrete, class F, for drain									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (USS)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	ditch and catch basin	E.12	m ³	10						
/04	Concrete, class H, for leveling concrete of drain ditch and catch basin	E.12	m ³	2						
/05	Formwork, F1 finish, for concrete of Item /02	E.13.8	m ²	9						
/06	Formwork, F1 finish, for concrete of Item /03	E.13.8	m ²	78						
/07	Formwork, F2 finish, for concrete of Item /02	E.13.8	m ²	103						
/08	Formwork, F3 finish, for concrete of Item /03	E.13.8	m ²	47						
/09	Formwork, F4 finish, for concrete of Item /01	E.13.8	m ²	512						
/10	Reinforcing bars for concrete works	E.14.3	ton	1						
/11	Shotcrete in adit tunnel	E.17.6	m ³	225						
/12	Steel wire mesh for Item /11	E.17.6	m ²	2,120						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/13	Anchor bars, D.25 mm for concrete facing wall	E.27.3	m	33						
/14	P.V.C. pipe D.50 mm for weephole	F.4.3	m	26						
	Subtotal of Item 3.2									
	TOTAL OF ITEM 3									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
4.	EL GUASMO WORK ADIT									
4.1	EARTH WORKS									
/01	Clearing the site for adit portal	C.2.3	m ²	1,670						
/02	Open-cut excavation, in common, for adit portal	C.5.5	m ³	3,730						
/03	Open-cut excavation, in weathered rock, for adit portal	C.5.5	m ³	7,300						
/04	Open-cut excavation, in rock, for adit portal	C.5.5	m ³	390						
/05	Underground excavation, all classes, in adit	C.13.6	m ³	6,560						
/06	Trench excavation, all classes, for drain ditch and catch basing	C.6.2	m ³	40						
/07	Permanent steel supports, H-125 x 125 mm	C.14.3	ton	31						
/08	D.25 mm rock bolts in adit tunnel	C.15.4	m	5,050						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/09	Backfilling for adit portal	C.7.6	m ³	140						
10	Backfilling for drain ditch and catch basin	C.7.6	m ³	16						
/11	Gravel surfacing	C.7.6	m ²	80						
/12	Gravel bedding for drain ditch and catch basin	C.7.6	m ²	2						
/13	Wet rubble masonry	C.19.2	m ³	10						
/14	Sod facing	C.20.2	m ²	500						
Subtotal of Item 4.1										
4.2	CONCRETE WORKS									
/01	Concrete, class D, for lining concrete of adit tunnel	E.12	m ³	598						
/02	Concrete, class E, for concrete facing walls and portal structure	E.12	m ³	43						
/03	Concrete, class F, for drain									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	ditch and catch basin	E.12	m ³	13						
/04	Concrete, class H, for leveling concrete of drain ditch and catch basin	E.12	m ³	2						
/05	Formwork, F1 finish, for concrete of Item /02	E.13.8	m ²	3						
/06	Formwork, F1 finish, for concrete of Item /03	E.13.8	m ²	87						
/07	Formwork, F2 finish, for concrete of Item /02	E.13.8	m ²	146						
/08	Formwork, F3 finish, for concrete of Item /03	E.13.8	m ²	62						
/09	Formwork, F4 finish, for concrete of Item /01	E.13.8	m ²	870						
/10	Reinforcing bars for concrete works	E.14.3	ton	2						
/11	Shotcrete in adit tunnel	E.17.6	m ³	440						
/12	Steel wire mesh for Item /11	E.17.6	m ²	4,010						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
/13	Anchor bars, D.25 mm for concrete facing wall	E.27.3	m	48						
/14	P.V.C. pipe D.50 mm for weephole	F.4.3	m	31						
Subtotal of Item 4.2										
TOTAL OF ITEM 4										

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
5. MEMBRILLO WORK ADIT										
5.1 EARTH WORKS										
/01	Clearing the site for adit portal	C.2.3	m ²	1,720						
/02	Open-cut excavation, in common, for adit portal	C.5.5	m ³	2,560						
/03	Open-cut excavation, in weathered rock, for adit portal	C.5.5	m ³	4,040						
/04	Open-cut excavation, in rock, for adit portal	C.5.5	m ³	210						
/05	Underground excavation, all classes, in adit	C.13.6	m ³	2,550						
/06	Trench excavation, all classes, for drain ditch and catch basing	C.6.2	m ³	40						
/07	Permanent steel supports, H-125 x 125 mm	C.14.3	ton	8						
/08	D.25 mm rock bolts in adit tunnel	C.15.4	m	1,750						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/09	Backfilling for adit portal	C.7.6	m ³	140						
/10	Backfilling for drain ditch and catch basin	C.7.6	m ³	15						
/11	Gravel surfacing	C.7.6	m ²	78						
/12	Gravel bedding for drain ditch and catch basin	C.7.6	m ³	1						
/13	Wet rubble masonry	C.19.2	m ³	10						
/14	Sod facing	C.20.2	m ²	440						
Subtotal of Item 5.1										
5.2	CONCRETE WORKS									
/01	Concrete, class D, for lining concrete of adit tunnel	E.12	m ³	611						
/02	Concrete, class E, for concrete facing walls and portal structure	E.12	m ³	25						
/03	Concrete, class F, for drain									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	ditch and catch basin	E.12	m ³	11						
/04	Concrete, class H, for leveling concrete of drain ditch and catch basin	E.12	m ³	2						
/05	Formwork, F1 finish, for concrete of Item /02	E.13.8	m ²	6						
/06	Formwork, F1 finish, for concrete of Item /03	E.13.8	m ²	80						
/07	Formwork, F2 finish, for concrete of Item /02	E.13.8	m ²	98						
/08	Formwork, F3 finish, for concrete of Item /03	E.13.8	m ²	49						
/09	Formwork, F4 finish, for concrete of Item /01	E.13.8	m ²	894						
/10	Reinforcing bars for concrete works	E.14.3	ton	1						
/11	Shotcrete in adit tunnel	E.17.6	m ³	153						
/12	Steel wire mesh for Item /11	E.17.6	m ²	1,480						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/)		Equivalent Price (S/)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/13	Anchor bars, D.25 mm for concrete facing wall	E.27.3	m	30						
/14	P.V.C. pipe D.50 mm for weephole	F.4.3	m	26						
Subtotal of Item 5.2										
TOTAL OF ITEM 5										

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
6. CONGUILLO ACCESS ROAD										
6.1 EARTH WORKS										
/01	Clearing the site along access road	C.2.3	m ²	522,400						
/02	Open-cut excavation, in common including weathered rock	C.5.5	m ³	797,200						
/03	Open-cut excavation, in rock	C.5.5	m ³	8,000						
/04	Embankment (excavated material to embankment portion, including transportation up to 500 m)	G.7.4	m ³	492,200						
/05	Embankment (excavated material to embankment portion, including transportation more than 500 m)	G.7.4	m ³	233,100						
/06	Compaction of original ground	G.7.4	m ²	9,460						
/07	Sod facing	C.20.2	m ²	250,100						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/08	Gabion for slope protection	C.18.2	m ³	1,060						
Subtotal of Item 6.1										
6.2	EXCAVATION AND FILLING FOR STRUCTURES									
Bridge										
/01	Open-cut excavation, all classes	G.6.2	m ³	4,320						
/02	Backfill with selected material	C.7.6	m ³	5,460						
/03	Free draining backfill	C.7.6	m ³	123						
/04	Gravel bedding	C.7.6	m ³	55						
Box Culverts										
/05	Open-cut excavation, all classes	G.6.2	m ³	593						
/06	Backfill with selected material	C.7.6	m ³	131						
/07	Free draining backfill	C.7.6	m ³	210						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/08	Gravel bedding	C.7.6	m ³	16						
Retaining Wall										
/09	Open-cut excavation, all classes	G.6.2	m ³	4,750						
/10	Backfill with selected material	C.7.6	m ³	1,340						
/11	Free draining backfill	C.7.6	m ³	671						
/12	Gravel bedding	C.7.6	m ³	211						
Subtotal of Item 6.2										
6.3	CULVERT AND DRAINAGE WORKS									
/01	Open-cut excavation, all classes	G.6.2	m ³	6,630						
/02	Backfill with selected material	C.7.6	m ³	2,650						
/03	Crushed stone bedding	C.7.6	m ³	415						
/04	Reinforced concrete pipe,									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	D. 600 mm	F.2.2	m	1,810						
/05	Reinforced concrete pipe, D. 800 mm	F.2.2	m	129						
/06	Reinforced concrete pipe, D. 1,000 mm	F.2.2	m	101						
/07	P.V.C. perforated drain pipe, D. 200 mm	F.4.3	m	10,600						
/08	Free drainage material for subdrain	C.7.6	m ³	2,210						
/09	Concrete, class E, for pipe culvert and wing walls	E.12	m ³	1,090						
/10	Concrete, class F, for side ditch and catch basin	E.12	m ³	3,390						
/11	Concrete, class H, for leveling concrete	E.12	m ³	35						
/12	Formwork, F1 finish, for concrete of Items /09, and / 11	E.13.8	m ²	3,950						
/13	Formwork, F3 finish, for									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	concrete of Items /09 and /10	E.13.8	m ²	27,800						
/14	Reinforcing bars for concrete works	E.14.3	ton	74						
/15	Gabion mattress, t= 500 mm	C.18.2	m ³	391						
/16	Joint filler, t= 10 mm	E.24.3	m ²	- Nil -						
/17	Bituminous coating for contraction joint	E.25.2	m ²	- Nil -						
Subtotal of Item 6.3										
6.4	CONCRETE WORKS									
/01	Concrete, class A, for bridge slab and girders	E.12	m ³	311						
/02	Concrete, class E, for bridge abutments and piers	E.12	m ³	904						
/03	Concrete, class E, for box culvert	E.12	m ³	361						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/)		Equivalent Price (S/)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	contraction joint	E.25.2	m ²	4						
Subtotal of Item 6.4										
6.5 PAVEMENT										
/01	Improved subgrade material, not less than corrected CBR 12	G.8.4	m ³	18,610						
/02	Graded crushed stone subbase, not less than corrected CBR 60	G.9.5	m ³	20,470						
/03	Transportation of improved subgrade material	G.8.4	m ³ .km	9,310						
Subtotal of Item 6.5										
6.6 MISCELLANEOUS										
/01	Guardrail	G.12.2	m	80						
/02	Warning signs	G.13.2	nos.	90						
/03	Bearing, fixed type	G.14.2	nos.	8						
/04	Bearing, movable type	G.14.2	nos.	8						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/05	Steel handrails for bridge deck	H.7.2	kg	3,790						
/06	P.V.C. drain pipes, D. 100 mm	F.4.3	m	7						
/07	P.V.C. pipe, D.75 mm for weephote	F.4.3	m	973						
/08	Dowel bars, D.22 mm (round bar)	E.26.3	ton	0.2						
/09	Anchor rod with steel pipe, D.32 mm for bridge shoe	G.14.2	kg	130						
Subtotal of Item 6.6										
TOTAL OF ITEM 6										

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
7.	EL GUASMO ACCESS ROAD									
7.1	EARTH WORKS									
/01	Clearing the site along access road	C.2.3	m ²	23,200						
/02	Open-cut excavation, in common including weathered rock	C.5.5	m ³	400						
/03	Open-cut excavation, in rock	C.5.5	m ³	100						
/04	Embankment (excavated material to embankment portion, including transportation up to 500 m)	G.7.4	m ³	21,800						
/05	Embankment (excavated material to embankment portion, including transportation more than 500 m)	G.7.4	m ³	20,700						
/06	Compaction of original ground	G.7.4	m ²	450						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/07	Sod facing	C.20.2	m ²	13,400						
/08	Gabion for slope protection	C.18.2	m ³	- Nil.						
Subtotal of Item 7.1										
7.2 EXCAVATION AND FILLING FOR STRUCTURES										
Bridge										
/01	Open-cut excavation, all classes	G.6.2	m ³	- Nil.						
/02	Backfill with selected material	C.7.6	m ³	- Nil.						
/03	Free draining backfill	C.7.6	m ³	- Nil.						
/04	Gravel bedding	C.7.6	m ³	- Nil.						
Box Culverts										
/05	Open-cut excavation, all classes	G.6.2	m ³	316						
/06	Backfill with selected material	C.7.6	m ³	69						
/07	Free draining backfill	C.7.6	m ³	110						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/08	Gravel bedding	C.7.6	m ³	8						
Retaining Wall										
/09	Open-cut excavation, all classes	G.6.2	m ²	- Nil -						
/10	Backfill with selected material	C.7.6	m ³	- Nil -						
/11	Free draining backfill	C.7.6	m ³	- Nil -						
/12	Gravel bedding	C.7.6	m ³	- Nil -						
Subtotal of Item 7.2										
7.3 CULVERT AND DRAINAGE WORK										
/01	Open-cut excavation, all classes	G.6.2	m ²	589						
/02	Backfill with selected material	C.7.6	m ³	272						
/03	Crushed stone bedding	C.7.6	m ³	37						
/04	Reinforced concrete pipe,									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	D.600 mm	F.2.2	m	179						
/05	Reinforced concrete pipe.									
	D. 800 mm	F.2.2	m	17						
/06	Reinforced concrete pipe.									
	D.1,000 mm	F.2.2	m	- Nil -						
/07	O.V.C. perforated drain pipe, D.200 mm	F.4.3	m	787						
/08	Free drainage material for subdrain	C.7.6	m ³	164						
/09	Concrete, class E, for pipe culvert and wing walls	E.12	m ³	98						
/10	Concrete, class F, for side ditch and catch basin	E.12	m ³	279						
/11	Concrete, class H, for leveling concrete	E.12	m ³	7						
/12	Formwork, F1 finish, for concrete of Items /09, and /11	E.13.8	m ²	418						
/13	Formwork, F3 finish, for									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/)		Equivalent Price (S/)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	concrete of Items /09 and /10	E.13.8	m ²	2,310						
/14	Reinforcing bars for concrete works	E.14.3	ton	7						
/15	Gabion mattress, t= 500 mm	C.18.2	m ³	92						
/16	Joint filler, t= 10 mm	E.24.3	m ²	- Nil -						
/17	Bituminous coating for contraction joint	E.25.2	m ²	- Nil -						
Subtotal of Item 7.3										
7.4	CONCRETE WORKS									
/01	Concrete, class A, for bridge slab and girders	E.12	m ³	- Nil -						
/02	Concrete, class E, for bridge abutments and piers	E.12	m ³	- Nil -						
/03	Concrete, class E, for box culvert	E.12	m ³	210						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
/04	Concrete, class H, for levelling concrete	E.12	m ³	16						
/05	Rubble concrete for retaining wall (concrete, class E and rubble/boulder)	E.12 & G.5.2	m ³	- Nil -						
/06	Formwork, F1 finish, for concrete of Items /02, /03, /04 and /05	E.13.8	m ²	285						
/07	Formwork, F2 finish, for concrete of Items /01, /02 and /05	E.13.8	m ²	- Nil -						
/08	Formwork, F3 finish, for concrete of Items /02 and /03	E.13.8	m ²	321						
/09	Reinforcing bars for concrete works	E.14.3	ton	17						
/10	Joint filler for culvert, t= 10 mm	E.24.3	m ²	13						
/11	Joint filler for expansion joint of bridge, t= 20 mm	E.24.3	m ²	- Nil -						
/12	Bituminous coating for									

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
	contraction joint	E.25.2	m ²	9						
	Subtotal of Item 7.4									
7.5	PAVEMENT									
/01	Improved subgrade material, not less than corrected CBR 12	G.8.4	m ³	834						
/02	Graded crushed stone subbase, not less than corrected CBR 60	G.9.5	m ³	943						
/03	Transportation of improved subgrade material	G.8.4	m ³ .km	420						
	Subtotal of Item 7.5									
7.6	MISCELLANEOUS									
/01	Guardrail	G.12.2	m	- Nil -						
/02	Warning signs	G.13.2	nos.	6						
/03	Bearing, fixed type	G.14.2	nos.	- Nil -						
/04	Bearing, movable type	G.14.2	nos.	- Nil -						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/05	Steel handrails for bridge deck	H.7.2	kg	- Nil -						
/06	P.V.C. drain pipes, D. 100 mm	F.4.3	m	- Nil -						
/07	P.V.C. pipe, D.75 mm for weephole	F.4.3	m	- Nil -						
/08	Dowel bars, D.22 mm (round bar)	E.26.3	ton	0.3						
/09	Anchor rod with steel pipe, D 32 mm for bridge shoe	G.14.2	kg	- Nil -						
Subtotal of Item 7.6										
TOTAL OF ITEM 7										

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
8.	MEMBRILLO OUTLET ACCESS ROAD									
8.1	EARTH WORKS									
/01	Clearing the site along access road	C.2.3	m ²	5,400						
/02	Open-cut excavation, in common including weathered rock	C.5.5	m ³	2,240						
/03	Open-cut excavation, in rock	C.5.5	m ³	100						
/04	Embankment (excavated material to embankment portion, including transportation up to 500 m)	G.7.4	m ³	7,200						
/05	Embankment (excavated material to embankment portion, including transportation more than 500 m)	G.7.4	m ³	- Nil -						
/06	Compaction of original ground	G.7.4	m ²	130						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/07	Sod facing	C.20.2	m ²	2,900						
/08	Gabion for slope protection	C.18.2	m ³	561						
Subtotal of Item 8.1										
8.2	EXCAVATION AND FILLING FOR STRUCTURES									
Bridge										
/01	Open-cut excavation, all classes	G.6.2	m ³	3,220						
/02	Backfill with selected material	C.7.6	m ³	2,710						
/03	Free draining backfill	C.7.6	m ³	62						
/04	Gravel bedding	C.7.6	m ³	27						
Box Culverts										
/05	Open-cut excavation, all classes	G.6.2	m ³	- Nil -						
/06	Backfill with selected material	C.7.6	m ³	- Nil -						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/07	Free draining backfill	C.7.6	m ³	- Nil -						
/08	Gravel bedding	C.7.6	m ³	- Nil -						
Retaining Wall										
/09	Open-cut excavation, all classes	G.6.2	m ³	- Nil -						
/10	Backfill with selected material	C.7.6	m ³	- Nil -						
/11	Free draining backfill	C.7.6	m ³	- Nil -						
/12	Gravel bedding	C.7.6	m ³	- Nil -						
Subtotal of Item 8.2										
8.3	CULVERT AND DRAINAGE WORK									
/01	Open-cut excavation, all classes	G.6.2	m ³	75						
/02	Backfill with selected material	C.7.6	m ³	57						
/03	Crushed stone bedding	C.7.6	m ³	2						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/04	Reinforced concrete pipe, D.600 mm	F.2.2	m	10						
/05	Reinforced concrete pipe, D. 800 mm	F.2.2	m	- Nil -						
/06	Reinforced concrete pipe, D.1,000 mm	F.2.2	m	- Nil -						
/07	P.V.C. perforated drain pipe, D.200 mm	F.4.3	m	30						
/08	Free drainage material for subdrain	C.7.6	m ³	7						
/09	Concrete, class E, for pipe culvert and wing walls	E.12	m ³	4						
/10	Concrete, class F, for side ditch and catch basin	E.12	m ³	59						
/11	Concrete, class H, for levelling concrete	E.12	m ³	1						
/12	Formwork, F1 finish, for concrete of Items /09, and /11	E.13.8	m ²	32						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/)		Equivalent Price (S/)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
/13	Formwork, F3 finish, for concrete of Items /09 and /10	E.13.8	m ²	472						
/14	Reinforcing bars for concrete works	E.14.3	ton	1						
15	Gabion mattress, t= 500 mm	C.18.2	m ³	2						
/16	Joint filler, t= 10 mm	E.24.3	m ³	- Nil -						
/17	Bituminous coating for contraction joint	E.25.2	m ²	- Nil -						
Subtotal of Item 8.3										
8.4	CONCRETE WORKS									
/01	Concrete, class A, for bridge slab and girders	E.12	m ³	156						
/02	Concrete, class E, for bridge abutments and piers	E.12	m ³	452						
/03	Concrete, class E, for box culvert	E.12	m ³	- Nil -						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
/04	Concrete, class H, for levelling concrete	E.12	m ³	14						
/05	Rubble concrete for retaining wall (concrete, class E and rubble/boulder)	E.12 & G.5.2	m ³	- Nil -						
/06	ornwork, F1 finish, for concrete of Items /02, /03, /04 and /05	E.13.8	m ²	262						
/07	Formwork, F2 finish, for concrete of Items /01, /02 and /05	E.13.8	m ²	778						
/08	Formwork, F3 finish, for concrete of Items /02 and /03	E.13.8	m ²	- Nil -						
/09	Reinforcing bars for concrete works	E.14.3	ton	51.3						
/10	Joint filler for culvert, t= 10 mm	E.24.3	m ²	- Nil -						
/11	Joint filler for expansion joint of bridge, t= 20 mm	E.24.3	m ²	4						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/.)		Equivalent Price (S/.)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/12	Bituminous coating for contraction joint	E.25.2	m ²	- Nil -						
Subtotal of Item 8.4										
8.5	PAVEMENT									
/01	Improved subgrade material, not less than corrected CBR 12	G.8.4	m ²	121						
/02	Graded crushed stone subbase, not less than corrected CBR 60	G.9.5	m ³	212						
/03	Transportation of improved subgrade material	G.8.4	m ³ .km	60						
Subtotal of Item 8.5										
8.6	MISCELLANEOUS									
/01	Guardrail	G.12.2	m	40						
/02	Warning signs	G.13.2	nos.	2						
/03	Bearing, fixed type	G.14.2	nos.	4						

BILL OF QUANTITIES

Item No.	Description of Works	Payment Item No.	Unit	Quantity	Foreign Currency (US\$)		Local Currency (S/L)		Equivalent Price (S/L)	
					Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)			
/04	Bearing, movable type	G.14.2	nos.	4						
/05	Steel handrails for bridge deck	H.7.2	kg	1,900						
/06	P.V.C. drain pipes, D. 100 mm	F.4.3	m	4						
/07	P.V.C. pipe, D.75 mm for weephole	F.4.3	m	111						
/08	Dowel bars, D.22 mm (round bar)	E.26.3	ton	- Nil -						
/09	Anchor rod with steel pipe, D.32 mm for bridge shoe	G.14.2	kg	- Nil -						
Subtotal of Item 8.6										
TOTAL OF ITEM 8										

Gentlemen
**CENTRO DE RAHABILITACION
DE MANABI (CRM)**
Portoviejo

Ref.: **SUMMARY OF THE TENDER**

The subscribed: _____
(Name of the Legal Representative)

Legal Representative of _____
declares that the value of this Tender, in accordance with the (Tendering No. _____)
Tender Documents, and with the unit prices and lump sum prices of the Work and Bill of
Quantities, is of _____
Sucre, plus _____ (indicate the type of currency).

The period of completion of the works will be of 54 months, from the day that the
commencement order is issued.

If our tender is accepted, we will contract a bond for an amount not less than 5% of the total
price of the Contract so to assure the performance of the Contract.

We agree to maintain the validity of this tender for a period of 180 calendar days from the
date established for the opening of the Envelopes.

The subscribed has verified carefully the figures and information submitted with this Tender,
and states that CRM will not assume responsibility for any error or omission by the
commitments that the tenderer might have acquired for the preparation of the Tender.

This Tender, jointly with its acceptance by writing included in the awarding notification,
constitutes a Obligatory Commitment until the preparation and signing of the Formal
Contract.

Legal Representative

Place and Date

LIST OF REFERENTIAL BASIC PRICES

Wages, Salaries, Social Benefits, Materials and Others
(use as many pages as necessary)

The Tenderer is obligatory include herewith a detailed and complete list of the wages, salaries and social benefits: permanent equipment cost, freights and others used by the Tenderer in the elaboration of the Tender, the wages and salaries, must include:

- (1) a. The Basic Wage or Salary Tendered; b. Employer's Contribution; c. Reserve Funds; d. Thirteenth Salary; e. Fourteenth Salary; f. Salary Compensation g. Bonus; h. Fifteenth Salary; i. Factor of days paid in relation to days worked, and all the benefits indicated by the Work Code and the I.E.S.S., so that no obligation be excluded.
- (2) In the case of foreign personnel that is non resident in Ecuador, the basic wages, social benefits, traveling expenses and expenses due to the stay in Ecuador must be detailed.

WAGES AND SALARIES

NOMINATION	Wages or Basic Salary		Weight Factor		Real (St. x day)	
	Monthly	Daily	Social Benefits	for days not worked	Wages	Salary

Place and Date

Legal Representative

EXPENSES FOR SOCIAL BENEFITS

SOCIAL BENEFITS

(To place the concepts and their correspondent social charges in percentages of the personnel wages, and according to what is legally established in Ecuador)

CONCEPTS	PERCENTAGES	LAW THAT ESTABLISHES THE OBLIGATION
TOTAL		

Place and Date

Legal Representative

WEIGHT COEFFICIENTS USED IN THE CALCULATION OF
THE REAL SALARIES THAT HAVE AFFECTED THE BASIC UNIT COST OF THE TENDER.
WEIGHT FACTOR FOR DAYS NOT WORKED

DESIGNATION	COEFFICIENTS OR PERCENTAGES	CLARIFICATIONS

Place and Date

Legal Representative

COST OF MATERIALS, PERMANENT EQUIPMENT AND OTHERS

ITEM	CONCEPT	COUNTRY	UNIT	UNIT VALUE		
				SUCRES	C.F.C.	TOTAL \$.

Place and Date

Legal Representative

INDIRECT COSTS

CONCEPT	PERCENTAGE	CLARIFICATIONS

Place and Date

Legal Representative

EQUIPMENT LIST AND RENTAL RATE

TYPE	EQUIPMENT DESCRIPTION	UNIT	POWER HP (KW)	BASIC HOURLY COST (Rupees)			BASIC COST (Rupees)					
				PROPERTY	OPERATION	LABOUR	TOTAL	DAILY	WEEKLY	MONTHLY		

Place and Date

Legal Representative

SCHEDULE OF MANPOWER

1. The Tenderers will have to provide detailed biodata of all Senior Supervisory Staff of Construction (including those belonging to Subcontractors, if any), that will be assigned to the Works on a full time basis, according to the Form No. 9-A.
2. From the upper rank to the lowest rank of supervisors or foremen (including those of any Subcontractor) that are not listed in the Form No.9-A.
3. Any personnel belonging to the Contractor must be put on a list, according to the Form No. 9-B that will be in charge of work at the Site.
4. Provide the estimated number of personnel required, from the foreman level to laborers, in accordance with the Form No. 9-C.

BIODATA ON SENIOR SUPERVISORY STAFF

1. Name : _____
2. Date of Birth : _____
3. Nationality : _____
4. Degree of Education and Year : _____
5. Qualifications (BS., Languages, etc.) : _____
6. Specialized Field(s) : _____
7. Position on Construction : _____
8. Length of Service with the Tenderer : _____
9. Years of Experience : _____
 (year) _____ Years
 From (month) (year)
 Till (month)

10. If he has worked in other firms than the Tenderer, give the name and length of services with previous employers.

Name of Employer

Length of Services

_____ years from _____ to _____
 _____ years from _____ to _____

11. Construction Experience :
(This should cover the past 15 years of experience. Use as many pages as necessary).

- 1) Name of the Project _____
- 2) Name and Address of the Owner _____
- 3) Name and Address of the Engineer (Consultant) for Supervision _____
- 4) Indicate the Features of Project (size of structures, work volume and any other particular interest connected with the Project) _____

- 5) Contract Amount (equivalent in US \$) _____

- 6) Position _____
- 7) Structures for which the Person was Responsible _____

- 8) Assigment Period From (month) (year)
To (month) (year)

LIST OF OTHER SUPERVISORY STAFF

Name	Age	Nationality	Qualification	Experience in Years	Duration of Assignment	Position Proposed
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Continue the summary on other pages if necessary

ESTIMATED MANPOWER REQUIREMENTS

Months	Foremen or Total the like	Heavy Equipment Operator	Mechanics	Skilled Worker	Common Worker	Others
1 - 3						
4 - 6						
7 - 9						
10 - 12						
13 - 15						
16 - 18						
19 - 21						
22 - 24						
25 - 27						
28 - 30						
31 - 33						
34 - 36						
37 - 39						
40 - 42						
43 - 45						
46 - 48						
49 - 51						
52 - 54*						
TOTAL						

Note: The estimated number of Ecuadorian labors and foreign labors personnel shall separately be filled in the format shown above:

Observations: * Scheduled time for completion of the construction

EQUIPMENT TO BE USED IN THE WORK FRONTS

DESCRIPTION OF THE EQUIPMENT	INLET STRUCTURE								
	DREDGING WORKS		EARTH WORKS		STRUCTURAL WORKS		CONCRETE WORKS		
	NUMBER OF UNITS	MONTHS WORKING	NUMBER OF UNITS	MONTHS WORKING	NUMBER OF UNITS	MONTHS WORKING	NUMBER OF UNITS	MONTHS WORKING	

Place and Date

Legal Representative

EQUIPMENT TO BE USED IN THE WORK FRONTS

DESCRIPTION OF THE EQUIPMENT	DIVERSION TUNNEL, OUTLET AND WORK ADITS											
	EARTH WORKS		TUNNELING WORKS		STRUCTURAL WORKS		CONCRETE WORKS					
	NUMBER OF UNITS	MONTHS WORKING	NUMBER OF UNITS	MONTHS WORKING	NUMBER OF UNITS	MONTHS WORKING	NUMBER OF UNITS	MONTHS WORKING	NUMBER OF UNITS	MONTHS WORKING	NUMBER OF UNITS	MONTHS WORKING

Place and Date

Legal Representative

EQUIPMENT TO BE USED IN THE WORK FRONTS

DESCRIPTION OF THE EQUIPMENT	ACCESS ROADS								CONCRETE WORKS	
	EARTH WORKS				PAVEMENT				No. OF UNITS	MONTHS WORKING
	CLEARING		EXCAVATION		FILLING & COMPACTING		PAVEMENT			
No. OF UNITS	MONTHS WORKING	No. OF UNITS	MONTHS WORKING	No. OF UNITS	MONTHS WORKING	No. OF UNITS	MONTHS WORKING	No. OF UNITS	MONTHS WORKING	

Place and Date

Legal Representative

**LIST OF SUBCONTRACTORS
PARTICIPATE IN THE CONTRACT**

The Tenderer declares that he will work with the following Subcontractors for the works indicated respectively:

NAME FIELD	SUB-CONTRACTING (Summary)

Indicate the name of each subcontractor and his respective job.

Place and Date

Legal Representative

The Tenderer shall provide the details of each proposed Subcontractor in accordance with the following form;

1. Name of the Subcontractor : _____
2. Postal Address : _____
: _____
: _____
3. Country of Registration : _____
4. Construction Experience : _____
 - a) Field of Specialization(s) : _____
 - b) Experience on similar works previously executed (Use format shown below and attached herewith).

Description of the Works	Value of Works* in US\$	Period of Time	Name and Address of the Owner	Type of Contract

* Convert the prices of the works using the prevailing exchange rate at the time of the respective sub-contracts.

5. Proposed work to be executed by the Subcontractor under the Contract.
List each item number of the Bill of Quantities, which the Subcontractor is to work on and the estimated value as follows:

B/Q Item No.	Works	Estimated Value (US\$)

6. Documentary evidence of intent to use this subcontractor is to be attached herewith.

JICA