VI.2 BILL OF QUANTITIES AND COST ESTIMATION FOR SLUICES IN NORTH BEN TRE

CALCULATION EXPLANATION NORTHERN BEN TRE WATER RESOURCES SYSTEMS PROJECT BEN TRE PROVINCE

-Volume: Based on Draft Design Drawing of Northern Ben Tre water resources project 2-Construction method :By machine + manually

3-Materials price: according to materials price declaration for 07/2012 number 115/TB-STC-SXD dated 31/07/2012 of Ben Tre province inter-Department of Finance - Construction, for materials not mentioned in the declaration market price of

4-Legal basis, norms, prices:

 Circular number 04/2010/TT-BXD dated 26/05/2010 by Ministry of Construction to regulate the establishment & management of construction investment cost management.
 Decree 70/2011/ND-CP dated 22/8/2011 regulating minimum wage for working labor in

companies, enterprises, cooperatives, farm, household, individuals & other organizations - Official documents number 1730/BXD-KTXD dated 20/10/2011 guiding the adjustment

of cost estimate for construction according to new minimum wage from 01/10/2011 under the provisions of Decree No. 70/2011/ND-CP

-- Circular number 129/2008/TT-BTC dated 26/12/2008 guiding the implementation of a number of Items in Value Added Tax Law and the implementation of Decree No. 123/2008/ND-CP dated December 8th 2003 by the Government regulate details and implementation of

..- Circular 33/2007/TT-BTC dated 9/4/2007 by Ministry of Finance to guide cost finalization for national budget project.

 Construction insurance cost is according to Decision number 33/2004/QD-BTC-TCNH dated 12/04/2004 by Ministry of Finance

-- Circular number 176/2011/TT-BTC dated 06/11/2011 by Ministry of Finance guiding collection, payment & usage of appraisal fees for construction investment project

- Cost norms of project management and investment consulting for construction issued together with Decision number 957/QD-BXD dated 29/09/2009 by Ministry of Construction.

.- Construction cost estimation norm for construction part issued together with the official documents number 1776/BXD-VP dated 16/8/2007

-- Construction cost estimation norm for installation part issued together with the official documents number 1777/BXD-VP dated 16/8/2007

-- Materials loading and unloading norms issued with the official documents number 1778/BXD-VP on 16/8/2007

 Materials norms for basic construction issued with the official document number 1784/BXD-VP on 16/8/2007

 Decision no 4892/UBXD-TMXDCB by Ben Tre PPC dated 14/12/2007 on issuance of construction price – for works in Ben Tre province .- Decision no 4892/UBXD-TMXDCB by Ben Tre PPC dated 14/12/2007 on issuance of construction price - for installation part in Ben Tre province

.- Price for basic construction in Ben Tre province issued with decision number 1662/2006/QD-UBXD of Ben Tre PPC

.- Decision number 2212/2006/QD-UBND on issuance of waterway transport fee of Ben Tre PPC on 27/10/2006:

- Decision number 4891/UBND-TMXDCB on issuance of price for horizontal transport at construction site in Ben Tre province by Ben Tre PPC on 14/12/2007.

.-Machine shift & construction equipment price table for construction in Ben Tre province issued together with official documents number 1001/UBND-TCDT dated 17/03/2011 by the People's Committee on issuance of machine shift & construction equipment in B

.- Official documents of the Ben Tre People's Committee number 5708/UBND-TCDT issued on 09/12/2011 regulating adjustment of cost estimation according to the new minimum wage from 01/10/2011.

Decision No. 30/2011/QD-UBND dated 28/12/2011 by Ben Tre People's Committee promulgating regulations on prices of land type in the province of Ben Tre in 2012. Decision no 18/2011/QD-UBND dated 27/07/2011 by People's Committee of Ben Tre province on issuance of houses and structures price table applied in the province of Ben Tre.

Decision no 14/2010/QD-UBND dated 12/05/2010 of People's Committee of Ben Tre on Issuance of supporting policies in cases the government recovers land in the province of

5-Explanation:

a-Summarized price:

NGTH= VL*Kvl+NC*Knc+MTC*Kntc Kvl=1,02*1,055*1,055*1,02*1,1=1,27 Knc=1,02*1,055*1,055*1,02*1,1=1,27 Kmtc=1.055*1,02*1,055*1,02*1,1=1,34

1.055

In which:

- : Adjustment factor for construction machine cost in saline area
- 1,02 Other direct cost
- 1,055 : General cost
- 1,055 : Pre-calculated taxed income
- 1.02 : Tents and temporary accommodation factor
- 1.1 :VAT

			Total cost
Stage1	Unit	Quantity	VND
1.Construction cost			1,894,487,000,00
An Hoa B=(10×10+30)m			596,474,000,00
1)Preparation works	set	1	2,190,000,00
2)Pile Foundation	set	1	106,591,000,00
3)Cofferdam	set	1	103,544,000,00
4)Embankment,Wing Wall	set	1	3,257,000,00
5)Sluice body(Concrete works)	set	1	148,902,000,00
6)Gate equipment	set	1	226,308,000,00
7)Ancillary works	set	1	5,682,000,00
Ben Tre B=(10×4+30)m			394,844,000,00
1)Preparation works	set	1	1,650,000,00
2)Pile Foundation	set	1	27,557,000,00
3)Cofferdam	set	1	62,152,000.00
4)Embankment,Wing Wall	set	1	2,480,000.00
5)Sluice body(Concrete works)	set	1	120,908,000,00
6)Gate equipment	set	1	174,415,000,00
7)Ancillary works	set	1	5,682,000,00
Ben Ro B=(10×2)m			63.034.000.00
1)Preparation works	set	1	2,729,000,00
2)Pile Foundation	set	1	8,753,000,00
3)Cofferdam	set	1	3,584,000,00
4)Embankment,Wing Wall	set	1	672,000,00
5)Sluice body(Concrete works)	set	1	20,660,000,00
6)Gate equipment	set	1	26,000,000,00
7)Ancillary works	set	1	636,000,00
Tan Phu B=(10×2) m			60,635,000,00
1)Preparation works	set	1	1,819,000,00
2)Pile Foundation	set	1	8,534,000,00
3)Cofferdam	set	1	2,257,000,00
4)Embankment,Wing Wall	set	1	672,000,00
5)Sluice body(Concrete works)	set	1	20,717,000,00
6)Gate equipment	set	1	26,000,000,00
7)Ancillary works	set	1	636,000,00
Management Building (S=300m2)	set	2	5,455,000,00
Management Building (S=60m2)	set	2	1,091,000.00
Canal system(dredging)	set	1	772,954,000.00
2.Land acquisition and compensation			31,624,000,00
3.Project management cost	%	1.0	18,944,870,00
4.Consulting services cost	%	8.0	151,558,960,00
5.Other expenses	%	2.0	37,889,740,00
6.Tax	%	10.0	208,393,570.00
7.Contingency			234,289,814.00
1)Physical contingency	%	10.0	234,289,814,00
Total			2,577,187,954.00
(Yen converted)	0.0038	9,793,314,22

Ben Tre Project Cost			
			Total cost
Stage2	Unit	Quantity	VND
1.Construction cost			1,159,242,000,000
Huong Diem B=(10×2)m			67,914,000,000
1)Preparation works	set	1	2,479,000,000
2)Pile Foundation	set	1	12,667,000,000
3)Cofferdam	set	1	3,226,000,000
4)Embankment,Wing Wall	set	1	672,000,000
5)Sluice body(Concrete works)	set	1	22,234,000,000
6)Gate equipment	set	1	26,000,000,000
7)Ancillary works	set	1	636,000,000
Ba Tri B=10m			40,556,000,000
1)Preparation works	set	1	2,002,000,000
2)Pile Foundation	set	1	6,240,000,000
3)Cofferdam	set	1	2,319,000,000
4)Embankment,Wing Wall	set	1	538,000,000
5)Sluice body(Concrete works)	set	1	15,821,000,000
6)Gate equipment	set	1	13,000,000,000
7)Ancillary works	set	1	636,000,000
Sau Chiem B=10m			40,556,000,000
1)Preparation works	set	1	2,002,000,000
2)Pile Foundation	set	1	6,240,000,000
3)Cofferdam	set	1	2,319,000,000
4)Embankment,Wing Wall	set	1	538,000,000
5)Sluice body(Concrete works)	set	1	15,821,000,000
6)Gate equipment	set	1	13,000,000,000
7)Ancillary works	set	1	636,000,000
Sluice B=(7.5×2)m			45,303,000,000
1)Preparation works	set	1	2,499,000,000
2)Pile Foundation	set	1	12,073,000,000
3)Cofferdam	set	1	3,031,000,000
4)Embankment,Wing Wall	set	1	496,000,000
5)Sluice body(Concrete works)	set	1	19,566,000,000
6)Gate equipment	set	1	7,002,000,000
7)Ancillary works	set	1	636,000,000
Sluice B=10m			68,437,000,000
1)Preparation works	set	2	4,005,000,000
2)Pile Foundation	set	2	12,479,000,000
3)Cofferdam	set	2	4,639,000,000
4)Embankment,Wing Wall	set	2	1,076,000,000
5)Sluice body(Concrete works)	set	2	31,642,000,000
6)Gate equipment	set	2	13,323,000,000
7)Ancillary works	set	2	1,273,000,000
Sluice B=7.5m			30,641,000,000
1)Preparation works	set	1	1,907,000,000
2)Pile Foundation	set	1	5,975,000,000
3)Cofferdam	set	1	2,331,000,000
4)Embankment,Wing Wall	set	1	538,000.000
5)Sluice body(Concrete works)	set	1	15,286,000,000
6)Gate equipment	set	1	3,968,000,000
7)Ancillary works	set	1	636,000,000
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Ben Tre Project Cost

			Total cost
Stage2	Unit	Ouantity	VND
Sluice B=5m		_	199,990,000,00
1)Preparation works	set	8	12,182,000,00
2)Pile Foundation	set	8	43,742,000,00
3)Cofferdam	set	8	12,500,000,00
4)Embankment,Wing Wall	set	8	3,788,000,00
5)Sluice body(Concrete works)	set	8	103,275,000,00
6)Gate equipment	set	8	20,139,000,00
7)Ancillary works	set	8	4,364,000,00
Sluice B=3m			111,273,000,00
1)Preparation works	set	7	9,393,000,00
2)Pile Foundation	set	7	24,319,000,00
3)Cofferdam	set	7	10,248,000,00
4)Embankment,Wing Wall	set	7	3,059,000,00
5)Sluice body(Concrete works)	set	7	52,817,000,00
6)Gate equipment	set	7	7,619,000,00
7)Ancillary works	set	7	3,818,000,00
Small sluices (box culvert)			368,881,000,00
1)Preparation works	set	63	1,065,000,00
2)Sluice body(Concrete works)	set	63	337,847,000,00
3)Gate equipment	set	63	29,969,000,00
Management Building (S=60m2)	set	1	545,000,00
Management Building (S=45m2)	set	21	8,591,000,00
River dike	set	1	176.555.000.00
2.Land acquisition and compensation			731,423,252,38
3.Project management cost	%	1.0	11,592,420,00
4.Consulting services cost	%	8.0	92,739,360,00
5.Other expenses	%	2.0	23,184,840,00
6.Tax	%	10.0	127,516,620,00
7.Contingen cy			214,569,849,23
1)Physical contingency	%	10.0	214,569,849,23
Total			2,360,268,341,61
(Yen converted)		0.0038	8,969,019.69

Stage3 I.Construction cost	Unit set	Quantity	Total cost
Stage3 I.Construction cost	Unit set	Quantity	VND
Stage3 1.Construction cost States P=(7.5 × 2)m	Unit set	Quantity	VND
1.Construction cost	set		1 000 (11 000 000
Shuica D-(75×2)m	set		1,088,611,000,000
Since B-(7.5×2)m	set		45,303,000,000
1)Preparation works		1	2,499,000,000
2)Pile Foundation	set	1	12,073,000,000
3)Cofferdam	set	1	3,031,000,000
4)Embankment,Wing Wall	set	1	496,000,000
5)Sluice body(Concrete works)	set	1	19,566,000,000
6)Gate equipment	set	1	7,002,000,000
7)Ancillary works	set	1	636,000,000
Sluice B=7.5m			61,284,000,000
1)Preparation works	set	2	3,814,000,000
2)Pile Foundation	set	2	11,950,000,000
3)Cofferdam	set	2	4,662,000,000
4)Embankment,Wing Wall	set	2	1,076,000,000
5)Sluice body(Concrete works)	set	2	30,573,000,000
6)Gate equipment	set	2	7,936,000,000
7)Ancillary works	set	2	1,273,000,000
Sluice B=5m			124,994,000,000
1)Preparation works	set	5	7,614,000,000
2)Pile Foundation	set	5	27,339,000,000
3)Cofferdam	set	5	7,813,000,000
4)Embankment,Wing Wall	set	5	2,367,000,000
5)Sluice body(Concrete works)	set	5	64,547,000,000
6)Gate equipment	set	5	12,587,000,000
7)Ancillary works	set	5	2,727,000,000
Sluice B=3m			95,378,000,000
1)Preparation works	set	6	8,051,000,000
2)Pile Foundation	set	6	20,845,000,000
3)Cofferdam	set	6	8,784,000,000
4)Embankment,Wing Wall	set	6	2,622,000,000
5)Sluice body(Concrete works)	set	6	45,272,000,000
6)Gate equipment	set	6	6,531,000,000
7)Ancillary works	set	6	3,273,000,000
Small sluices (box culvert)			638,222,000,000
1)Preparation works	set	109	1,842,000,000
2)Sluice body(Concrete works)	set	109	584,529,000,000
3)Gate equipment	set	109	51,851,000,000
Management Building (S=45m ²)	set	14	5,727,000,000
River di ke	set	1	117,703,000,000
2.Land acquisition and compensation			671,124,927,620
3.Project management cost	%	1.0	10,886,110,000
4.Consulting services cost	%	8.0	87,088,880,000
5.Other expenses	%	2.0	21,772,220,000
6.Tax	%	10.0	119,747,210,000
7.Contingency			199,923,034,762
1)Physical contingency	%	10.0	199,923,034,762
Total			2,199,153,382,382
(Yen converted)		0.0038	8,356,782,853

DETAILED COST	ESTIMATE TABLE
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Civide	Wini ilans	Dett	Válenie		Pitte	Tables		
Norras		1.0		Material	Laivor	Mashine shift	I what durings	Manant
1	* 1- An Hos Sluise Bc=(10x10+30)m-FA1:							452,224,784,848
	Sinice to be located in the river-bed	1			-			
	* Size wen				-			
A4.11111	Site Clearance	100 12	785.00		175,008		222.921	174,983,148
AA.12!!!	Curning down trees in first ground Direct =30cm	tee	2,000.00		22,108		28,159	58,316,519
A4.13111	Digging free samps Dtae = 30cm	tae	2,000.00		36 543		46.931	93.861.533
AA.13211	Digging bush of water meanur. Dbush =30cm	tee.	1.000.000		37,685	1	124,867	124.386.519
AB.12214	Embankments go=1.01/m3	102	1.232.00		149,216		190,070	234,185,801
AB. 11212	Soil Excavation for embankment - Soil Grade II	1 mil	1.348.24		194,295		345,465	191,784,744
AB.22121	Disgung and transporting organic soil in a distance = 50m	100 mil	15.02		The second second	870.462	901.000	13.533.013
	Bulldozer = 110CV, Soil Gride I	1					-	
AE 13912	Embankment in combination with service roads, K=0.9	1058	1.019.00		132,698		181.51	172,160.902
11	Using soil from the excavated pit for embankment		C					
AE 64112	Embankment in combination with service roads, commessor 97 H=0.9	100 mB.	30.56		320-538	799.448	1.452.685	45,309,311
AB 54120	Disging soil for embankment by excavators =0.8m3	100 m3	33.62		119 741	836404	1 279 210	43.002.024
	Sail grade II	10000					~	
A8.41112	Transporting soil by dump trucks	100 m2	33.62			1.196,557	1,607.992	54.054.249
1	Distance = 300m, truck 5T, Soil grade II						~	-
AB. 13212	manual embankment of service roads K=0.9	Emf	280.00		132,636		160.951	47.306.234
1	Using soil from the excavated pit for embankment			-			~	- 1
AE 64111	Enthankment of service toads, compressor 97 K=0.5	100 m2	3.40		320,532	751 449	1,482,638	12,454,130
AB 24122	Digging soil for embaniment by successors <=0.5m3	100.75	3.34		119.741	818 404	1.279.213	11 814 928
1	Soll grade II	1.1.1.1						
AE #1112	Transporting soil by dump works	100.003	-9.94			1.198.557	1 607 392	14,887,843
1	Distance = 300m, truch 5T Soil gratie II	1.000						-
AB. 13711	Manual embankment of site ground	-initial -	773.00		105.162		131.406	101.578.932
	Using soil from the excavated pit for embankment							
AE 62111	Embankment of tite ground by compressor 9 Ton K=0.15	100 m3	23.20		135.301	492,038	854 866	19.388.885
AB 24122	Distants soil for embankment by excavators (=0 fm3	100 m3	24.82		119,745	838.404	+,279,213	31,755,183
1	Soil and E							-
AE #11112	Transporting soil by dump tracks	100/m51	24.82			1,198.557	1.607 992	38,918,788
	Distance = 300m truck 3T Soil grade II						-	200.00

Code	and a line of the second s	UNIX	Volume		Price		Total price	Amount:
Rerris	WORK ICENIS			Material	Labor	Maeline shift		
AB 11512	Digging dramage ditches E =3m, H =1m, Soil grade II	1 mā	308.00		167,638		2(1.555	85.788.786
AD,21228	Embankment with segregate with thickness of 20 cm for service roads	100 m2	<3.85	9.835.252	600,600	1.079.775	16,112,225	1082,708,499
86. Ht206	Installation of concrete pipes D500mm	100mi -	1.20	54,584,409	17.798.591	8,550,545	100.978.232	121,173,575
AB 27170	Land levelling as the previous condition of site ground, distance =50m	100.05	40.00			825 882	1.109.591	44,383,644
	Bulldoger = 110CV, Soil Grade II						× .	
GTT	Material loading and unloading terminals	0.000	1.00	25,000,000			31.844.758	31 844,756
· · · · · · · · · · · · · · · · · · ·						-		
	"Bored piles for ground pertment				-			
A0.34223	Drilling on land under water by totary drilling method	m.	960.00	394,380	1,393,640	1,084,585	8,419,001	6, 162, 240, 828
	Diameter of boreholes of 1000mm	1					-	~
AL 1211	Production of pipe casing (depreciation of 10%)	tpo	\$28.98	2,182,809	4,319,289	1,561,287	10,214,502	3.718.350.457
AL11911*	Production of positioning frame system (depreciation of 10%)	fon	1 148.00	2.591.679	5,702,845	2,163,234	13.472.544	15,439,535,138
AL119111	Production of bulkhesd slot (depreciation of 10%)	lon	90.28	2,531,679	\$,702,84E	2,163,234	(3,472,544	1216.233.887
AJ.83321	Erection of steel structure under water	lon	328.08	B18.883	2,474,850	2 (258,048	6,706,434	2,200,243,234
AJ.633211	Dismonthing of steel structure under water	lon	328.08	371 320	1,484,892	1,234,629	4,023,880	1.320,127,957
AC.34512	Erection of pile casing for the bored piles		3.360.00	119.821	1,026,512	1,120,769	2,996,358	9.968.961.532
1.	Above the water level, with piles =1000mm							18.1
AC.22812	Driving steel profile piles, h- 100mm, above water level	100 70	132.42		2,440,387	22,942,361	33.939.606	4.494.292.578
1	L==10 m. Soil grade II (part submerzed by land)					1.		
AC 22612*	Driving steel profile piles, h-100mm, above water level	100 m	+16.40		1,830,290	17,206,771	25,454,704	2,962,975,389
	L=10 m. Soil grade II (part not submerged by land)						×	
AC 23420	Dismantling steel putifile piles under water	100 m	132.42		1,228,660	8,545,369	13,046,179	1.727.574.961
AC 23420	Distinuting pile casing under water	100 m	33.60		1,228,860	8,545,369	13,046,179	438,361,599
AC 339956	Pumming bentomite solution for anti-settlement	1m2	754 00	108 886	137,729	280.520	665.584	519,177.475
	of driling hele wall underwater	1.2.1						
AF-25215	Concrete of bored piles uniterwater	1 mā	1.633.00	1,374,151	339,537	798,846	3,255,134	5,315,633,693
1	D == 1000 mm, montar of stope & concrete 1x2 M300						-	-
AF.67210	Reinforcement of underwater bored piles	tor	198.00	17.697.210	2,911,879	1.888.109	28,788.045	5,842,085,443
GTT3	Sand pumming from the bares, a distance of 500m	Em00t	319.48	9.307.142	160.628	1,487,438	14.031.967	4,402,922,931
AF.24113	Bracing concrete of stone piles 1x3 M200	161	1.238.00	1.060,165	301,282	320.657	2,178,820	2,897 378,746
AF.65220	Bracing reinforcement of bored pile	lon	74,00	17.445.627	3,025,736	805 901	27,280,800	2.013.742.214
AF.@1531	Bracing Fornwork	100mE	81.90	25.921.878	7,142,544		42,117,142	2,807,051,076
1		- 100 m						-
	Pile driving for ground treatment			1				-
1.8	+ Pile casting yard:	· · · · · · ·				10.000	1.48	
AB 22122	Grading the pile casting yard by bulldozers = 110CV, soil grade II	100 m3	3.00	the second second	er Eller	025,662	1.109.591	3,228,775
AX.41114	Mortar with grade 75 for troweling ground, 2 cm	1m2	1.000.00	15,002	14,83e	606	39,383	39,583,200
AF, 11121	stone-lined concrete 455 M100, walth = Them	1/6	53.00	340 627	217.378	40.864	142 21	70.116.062

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Code	Work Items	Dert	Volarne		Price	Tradicion	Sec. 1	
Nemes				Material.	Laber	Machine shift	I otal price	Arecent
P	1				1		19	1
10.000	~ Staffold	- 11 L L L L L		-	1			
AB 82111	Soil enbankment for scaffold by compressor 9 ton, K=0.05	100 m3	8.40		(38 974	492,038	834,888	7,012,872
AB.24122	Digging soil for embankment by excavators >=0 ltm3	100 m3	8.99	10.0	119.741	638.404	1,279,243	11,497,566
1	Soil grade II	11 14	1.				1	•
AB、井村位	Transporting soil by dump mucks	100 m3	8,99			1,196.567	1,607.992	14,452,629
1	Distance = 300m, truck ST, Soil, grade II	1 19-4-44				i an incertai	· · · · · · · · · · · · · · · · · · ·	
AB.88112	Sand embaniment for scaffold by compressor 9T. E=0.9	100 173	8.40	9,307,143	276,326	740 322	13,202,382	110,904,209
AD.21236	Aggregate of scaffold with thickness at 10cm	100:002	16 80	9,335,282	800.600	1,879 775	15,182,325	355,063,065
AD 21225	Aggregate of scaffold with thickness of 10cm	100-72	18:80	4,857,828	414.089	897,599	7,679,277	129,011,858
								1
	- Fabrication:		1					
AG.11115	Production of pre-casted concrete components	+ m3	1.607,69	1,179,611	237,447	63.990	2.017.907	5,244,168,500
	piles, column, concrete mortar with crushed stone 1x2 M300		1					
AG.13121	Pile reinforcement	.tbr:	401.92	17,399,809	1.581.748	375,695	24,657.921	9,910,511,558
AG.21121	Production, election and dismantling of pile formwork	100 mZ*	91.87	834,723	5,288,874		1,900,175	718,588,449
AL 13151	Production of pile splices	Iby	90.38	15,305,814	5,696.785	1,024,542	31,951,089	1,968,228,069
AL64151	Erection of pile splices	- tan	80.38	411,280	1,786,174	279,828	3,175.142	255,217,397
AL 11131	Production of drivers pile of steel profiles	the	4 80	19,070,916	2,044.415	1,685,353	29,174,810	140,038,086
	a Bile definition	-						-
10 11111	- Pue diving	- I seet as 1	1 1 1 1 1 1 1			200 700	842 550	400-005 100
Pla:41141	Pue transport	section	1.121.00		1.057 047	309,709	910,282	900,002,303
Ale: Martin	Puor Pile Unving on ground, nammer = 2,51	100 m	0,00		1.393.20/	12,420,233	19,110,000	123.300.3/7
10.000	5011 grane IL Pile L 24th 1=33/230201 (A=1,3)	1.00			1 100 1000			
AC. 13523	Driving remuniced plantin place on ground, infinitier (=1.5.1	NUUM	11.00		1,292,178	0,224_10/	12 / 40:404	121 /12/914
A CO A COMPANY	Son Sugar Histradem Hastarocu	1.000	14.50		1 100 1000	0.001.077		-
AUL 12023	Durang Kennuncai negative pues on ground, hammer =2.91	100.m	13/12	1.1	1,252,178	8,284_157	12 (40:404	338 111 200
A COLUMNIA	Saugnaelt, Pile Louen, F=Son(Son	1 100						
AG.15223**	Driving remoted batter rules on ground, hommer (=1 31	100 m	33 55		1,514,014	9,940,988	15,288,485	513,093,090
1.5 LEBRE LA	Dorr Europert Are random teaperocus (vel 15)	1			(mir ets.			-
AU.102231	During remoticed used use on month number = 21	m.001	0,00		1.125.20/	5,696,300	13,3/7.424	50,998,417
	Solignde II, Pile L>D4m (F=30k30cm (A=1.05)	-						X
AU.23110	Distranting driving piles	100 m	6,05		572,407	4,695,929	7,039,762	42,390,680
AA 2124	Pus head meaning	1.m3	52.20		1,08,4%		1,399,150	13,035,611
GIL	using buildoger 180 cv	307	90.00			888,397	1 193,87.1	36,509,699
1		- T						
	*Foundation pir encivation						1	
AB 22122	Grading of service roads for foundation pit and storage yard	500 m3	8,60	1 11		825,682	1,109:591	9,764,402

Code	to a march	Unit	Voiarse	-	Price	Testados	1.001	
NOTICE	Work Items	1.11	1.200	Material	Labor	Machine thift	fotal price	Antount
	L =50m, bulldozer =110cv. Soil grade II		h		-	10 mm		*
AD.2122E	Embrankment with assess te with thickness of 30 cm	100 m2	11.00	9,335,252	000.005	1,879,775	15,182,325	187.008.578
A5.66113	Soil Endoankment of service roads K=0.95	6m 001	11.25	9,307,143	278,328	911,370	13,432,074	151,110,828
AD. 11221	Constructing road surface with stane aggregate 0-4	EmDOI	5.40	46,859,340	946 888	2,716,588	84,545,789	348,547,158
AB 25412	Digging foundation by encovators = 0.8m3	100/03	87.43		281.957	960,309	1 625,021	142(875,557
12	Width of foundation > 10m. Soil grade II		·			1		
AB.41112	Transporting soil by damp trucks	100/m3	87.43			1,198,557	1 607 992	140,588,713
	Distance = 300m, mich ST. Soil grade I					1		-
AB.11382	Mamual foundation excavation with the width > 3m	1.m3.	3,000,00		147.374		187.723	563,169,200
1	Depth Gm , Soil grade II		1					
AB 34121	Manually soil digging on trucks	100.m3	30,00		92,109	705,025	1,064,774	31,943,205
AB:41111	Transporting soil by dump tracks	100 m3	30.00			856,671	1,285,821	38,568,639
- Frage - 1	Distance = 300m, muck ST. Soil grade 1					1.		
AB 34113	Grating the soil in the dumping treat by a buildener 110 VN	100/12	117.43			198,308	388.534	31,299,040
1.000	Backfilling fixindation pits	· · · · · · · · ·				1	- 2 -	
AB.11212	Dumping sul into hass, sewing the head of bags	168	55,255.00		114,215		145,485	8.184,429,662
GTT2	Big soil bags	beg	2,081.472.00	3,182		1	4,053	8,436,093,773
A5.91111	Drop the big sand bags by barges as opening the bottom	100m3	582,68		10 million (1997)	989,179	1,329,308	347,816,255
AS 24400	Dizzing for removal of service road & scaffold by exchanter =	100 m8	16.65		119.741	638,404	1,279,243	21 298 395
· · · · · · · · · · · · · · · · · · ·	0,8m3, Soil ande II						-	
AB.41112	Transparting soil by dump trucks	100.003	18.85			1,198,357	1.607.992	38 773 082
1	Distance = 300m, muck 5T, Soil grade II				C	· · · · · · · ·		
GTT	Pumping water into foundation pir 20CV	ifietz.	1.000.00			184,109	:197,415	247 414 888
A		111111111			C			-
	* Borst nile coffentant	101 11						-
AO.34223	Drilling on land under water by rotary drilling method	700	1.728.00	394,380	1.393.840	3,081,585	6,419,001	11,092,033,490
1	Diameter of bareholes of 1000mm	1						5+c1
AL/121111	Production of pipe casing (10% of depreciation)	.ipr:	1,172,01	2,192,809	4,319,289	1,661.287	10,514,302	12.329,400,631
AL119111	Production of positioning frame system (depreciation of 10%)	101	955,10	2,591,879	5,702,845	2,163,294	13,472,544	12,887,628,538
AL 11911*	Production of bulkbesti slot (neurochinan of 10%)	ter	284.98	2,591,679	5,782,845	2,163,234	13.472,544	3,639,068,704*
AL63321	Erection of Ineel structure unifer water	ter	493.18	818,883	1,474,820	2,068,048	8,708,434	5,240,246,971
AL63321*	Disponling of steel structure under warer	ter	493.18	371,330	1,484,892	1,234,829	4,023,860	1,944,148,207
AC.34512	Erection of pile casing for the bared piles	in:	4,752.00	119.821	1.026.512	1,120,788	2,968,358	14,096,131,310
	Above the writer level, with tilles =1000mm	1, 11, 11	11	- H			1.1.1.1.1.1.1.1	
AC.22542	Driving steel profile pile, h. 100mm, above water level	m 00/	110,35	· · · · · ·	2,440,387	22,942,381	33,939,608	3,745,235,481
1.	L =10 m Soil grade II (part not submerged by land)							A.
AC.22542+	Driving steel profile pile, h. 100mm, above water level	100 m	97.02	-	1.030.290	11.208.771	25,454,704	2,469;611.917
	L := 10 m Soil grade II (put not submerged by land)	1		-			-	-

Code		Unit	Votame		Price	1.1.1	Table	4
Nerras	WORK REINS			Material	Labor	Machine shift	Total price	Arecest
AC 25130	Dismanling-steel profile piles under warer	100 m	110.35	-	1 228 650	6,545,389	13,046 (79	1,439,845,901
AC 23130	Dismonthing pile caving under water	100 m	47 52	1	1.228.650	6,545,369	13,048,179	813,954,404
AC.32820	Purpose bemonite solution for anti-settlement	Viel	1.357.00	106-888	137.729	380 520	466 336	934.381.743
	of bore - hole wall underwater							
AR:25215	Concrete of bored piles underwater	1 ma	3,583.00	1,374.151	338.537	798,848	3,255,134	11,596,042,161
	D = 1000 mm mortar of stans & concrete 1x2 M200							
AF 87210	Reinforcement of underwater bored pile:	ton	428,00	17,897,210	2,911,879	1,886,108	28,786,048	12,320,428,620
GTTE	Sand gumping from betthes, distance of 506 m	100/02	136.42	9,307,443	160.628	1,467,438	14,031,967	1,942,304,921
AF 24113	Bracing concrete of stone rules 1x1 M200	100	2 490 00	1,060,165	301,282	330,357	2,178.820	5,425,260,987
AF 66220	Bracing reinforcement of bored pile	- tas	249.00	17,445,827	3,025,736	885,99.1	27,286,300	6,792,794,748
AF \$1501	Bracing Farmwork	100m2	124.50	25,921,878	7.142,544	1	42,117,142	5,243,584,139
AA:22920	Demolition of concrete underwater	172	1.357.00	38,182	225,982	827.141	1,448,015	1,964,958,987
1	The Person stands and an and an an an and an			1			~	
Ar saint	 Connecting pairs with dynes 	100.00				arte Los	-	
AB 22121	Digging and transporting organic soil in a distance = >0m	100 413	2//00	-	-	6/0.462	900,000	24,320,968
	BELLINDER - LIUCV, SOLIGINAEL	100.00	050.00			1011 500	0.000.040	-
AB-2/232	Digging champers by exceeded = 0.8003	100 103	203-00		1,0/2,142	1,011,343	2,720,949	705,011,914
A D. STATIST	Willin - Ton, Son grade n	100 -0	200.00			and and	1 100 204	200.010.000
AB 22122	digging and leveling the tagoon in a autance = 50m, sou grade it	100 m3	200.00	10 100 100	2005 2007	825 052	1,108,591	121,918,218
AU 27228	Proparament with signeduce why increases of no cur-	100 m2	15.90	9.100.000	200 600	1.6/5.//2	13,182,323	1.136,0/4,397
-	* Endoankment connecting with Investment & Construction Project for	anti-erosion	of Giao Hoa Ri	ver Bank:	-	1.1.1.1.1.1.1	A.11	1. 1. A. A.
AB 27412	Dizzing to make slopes by excavators = 0 Bm5. Soil grade II	100 m3	115.00	1 · · · · · · · · · · · · · · · · · · ·	891,811	960-160	2,426.035	278,993,990
AE 1341	Dumping soil into bags, sewing the head of bags	0 mã	36,900.00	94,933	82.898		226,519	8.358.543.963
GTT2	Big sand bags	bee	1 365 303 00	3,182			4.953	5,533,487,276
AB 31111	Drop the big sand bags by barges as apening the holum.	100/#5	389.00	-	×.	988 179	1,329,388	490,514,488
E1185.8A	Sand embanisment on road surface E=0.95	100 m3	27.40	9,337,443	276 326	911,370	13,432,074	368,038,818
AF. 15813	Slab concrete, road surface with stane 1x1 MD00	108	1 298 00	1,034,028	602,565	58,118	2,882,778	2,785,855,188
AF.12143	Concrete of rock embaniment 1:1 M200	168	573.00	1,193,951	788.861	38,058	2,854,774	1.521, 186, 784
AF.12910	Concrete of stone beams 1x2 M200	5m.f.	80,00	1/034,028	710,974	96,068	2,361,852	141,111,095
AF 11212	Concrete pouring behind stone 1x2 M150	1 mB	75,00	840,827	217.378	40,664	1,402,321	105,174,078
AF_11212	Stone hearting concrete 1x2 M150	Em /	488,00	840,827	217,378	40,664	1,402,321	684,332,670
AF #1121	Cuth contraste MI00	1 mB	150.00	840,827	217,378	40,664	1,402,521	210,348,157
AK 41124	Lining mortar grade M75 with thickness of 3 cm.	1.62	1,300.00	22,123	22,811	908	58.323	75,819,359
AE 11114	Ashlar M100	1 mB	290.00	875,198	381,449	2 - 1	1,800 708	448, 197, 593
AK 55310	Interlocking concrete block pavement	102	1,200,00	101,000	30,128	1	VEF JOIL	200,435,900
AK38131	crushed stone 1a2	100 #3	4.85	52,749,075	1,584,267	1,211 313	70,837,518	343,581,954
AL 16122	Streading geotextile fabric fabric on land	500 m2	98.50	3,350,688	215.889	1 0-40	4.545.818	447,487,379

Code		Unit	Volanie		Price	1	-	Autorite
Norme	Work tierus			Material	Libor	Muchine thiff	Total price	Anount
081.1	Spreading geotextile fabric fabric underwater	300 m2	320.00	3,455,411	247.643	482,302	5,365,738	1,717,034,719
055.4	Drop stone sabions underwater	mä	9.600.00	355,210	346.440	1	895.029	8.592.277.473
065.2	Buoys & mit for dropping stons stoins	+0m3	960.00	9,958	34,810	60,363	124,839	119,663,462
GTTI	Gabian wire mesh	172	64.800.00	45,000	×.	-	57,321	4,860,783,903
AC.11122	Driving thesting piles with Lpile = 4.5m, Sml grade II	100/m	787 50	570,810	561, 190		1,441,981	1,195,520,491
AF 92111	Different types of metal formwork	100/02	33.82	5,716,284	8,237,921	511,011	18,481.427	820,627,029
AF BASE	Fabinization of different reinforcement	jas.	236 87	17,399,809	2,078,999	397.281	25,345,802	8,003,660,021
1.0	*Setvier construction:	-		-	-		-	
AF 11225 :	Concrete of bottom slabs with stone 1x2 M300 B- 250cm	-Em /	9,292,00	1,310,542	362,908	40,357	2,136,530	20,317,238,629
AF 12145	Concrete of edge posts, Thickness > 45cm	1 mB	4 456.53	1,358,700	788.881	96.053	2,364,630	12,786.311.503
	Height = 16 m. concrete montar with stone 1a2 M300				1.00158		- 1	-
AF 12145	Concrete of tentre piers, Thickness > 45cm	1.43	3,539,41	1,358,700	788.861	36 063	2,984,630	10,139,100 118
	Heigin <= 16 m. concrete mortar with stone 1a2 MS00							-
AF 12145	Centrete fur bulkhead box. Thickness 45cm	1.48	519:00	1,358,700	788.861	98,068	2,864,630	1 #36,742,977
11	Heigin = 16 m. concrete mortar with stone 1a2 M300						-	-
AF:12145	Concrete for bulkhead floor. Thickness > 45cm	fimã	1,459,00	1,358,700	788.884	96,058	2,864,630	4,179,495,190
10.1	Height = 16 m, concrete mortar with stone 1x2 M300				1			
AF:12915	Concrete with stone 1x2 M300 for transport bridges	fintB	1.883.00	1,197,160	740,974	96.058	2,689,650	4,788,827,403
AF 125(3).	Concrete with stone 1x2 M200 for transport bridges	1/m5	27.00	1,034,028	740,974	96,058	2,351,852	63,499,993
AF 12005	Concrete for pulling system of rock values 1x2 MB00	1.45	451 00	1,345,379	962,610	98,058	3,068,367	1 384,111,068
AF (1113)	Concrete for pulling system of rock valves 1:2 M200	1/76	17:00	1,182,245	962,610	98,058	2,86/ 184	48,840,133
AF 11212	Concrete of stone slab 1x2 M150	1.45	395 70	950,508	302,116	40.357	1,880,484	853 096,447
AF 11121	Crushed stone concrete 4ud iming, B=250km	1/76	366.00	840,827	217,378	40 684	1,402,321	513,249,502
AK 41124	Lining mortar grade M75 with thickness of 3 cm	1.02	5 139 33	22,123	22,611	808	58,323	182,745,301
新設性	Different types of metal formwork	100m2	550,49	5,716,264	8,237,924	511,011	19,461,427	10,182,883,410
AF.61522	Fabrication of different reinforcement	Tát	2,889,68	17,399,609	2,078,000	397.25t	25,345,802	67,665,081,353
AL-41410	fabrication of couplings by PVC plates	-1.m	303.00	292,821	473,444		976,060	295,746,197
AL 25112	Erection of rubber bridge bearing	piece	100.00	578,455	753,206		1,896,256	189,825,827
AL 16122	Spreading geotevole fabric fabric on land	100 m2	11.49	3.350.688	215.689	1	4.542.818	52,198,958
031.1	Spreading geotestale fibric fabric underwater	100 m2	840 57	3,455,417	247,643	482,802	5,366,733	3,437,127,908
035.4	Drop stone gabians uniterwater	En	16,014.00	366,240	348,440	1	885,029	14,332,992,880
065.2	Buoys & raft for drapping stone galaians	10/15	1.601.40	3,938	34.810	50.333	124,639	199,598,931
GTT1	Gabion wire mesh	100	141,459.00	45,000	Sec. No. of Art.		57.321	6,108,509,739
AC:HTC:	Driving sheeting piles with Lpile = 4.5m. Soil grade II	Im COP	64,80	570,810	561,190	1. The second	1,441.951	93,437,115
AC.221121	Driving plastic piles with L=8m.	-100 m	38.40	25,125,000	2,625,461	12,983,092	52,729,300	2,024,767.019
AD,21228	Construction of road surface with segregate d=20cm	100 m2	9.00	9,335,252	008.005	1,879,775	15,182,325	135,640,929
AB.88113	Sand embandment for road bases by congressors 97 E=0.55	100 m3	34,50	9,307,143	278,328	911,370	13,432,074	463,406,541

Code	Werk (ben s.	NIII	Aorense	-	Pripe	Tanking		
Norres				Material	Lalor	Mashine shift	fietal price	Additiont
21143.BA	Embankment for road bases by compressors 9T K=0.9	100.005	33 30		120,538	75/3 448	1.482,685	49.571.735
AB 19120	Digging soil for embankment by excivation =125m2	100 m3	36 63		119,741	853,949	1.300.104	47 122 797
	Soil ande II						-	
AB.41122	Transporting soil by dump trucks	900 m2	28.63	1	-	1,025,735	1.379.778	50.541,251
	Distance = 300m,truck 7T.Soil grade II			1			· · · ·	
	* Wing wall			1			~ 1	
AB 66143	Sand embankment by Vibratory Rammers K=0.95	100 m3	15.00	9,307,141	382,400	899,439	13,919,381	208,789,218
AE.66113	Sand embankment by compressors #T K=0.95	100 m3	35.00	9.307,142	276,328	里11.370	(3,432,074	470.122.578
AE 85130	Soil embankment for wing wall by vibratory rammers IC=0.95	100.m3	45.00		£ 190,783	1,420,053	4.898.897	211_450.366
AE 64113	Soil embankment for wing wall by compressor 9T K=0.89	100.m3	105.00		320,638	1,119,227	1.912.989	200,798,761
AB 24121	Disging soil for embankment by excavators <=0.1m3	100 m3	169.50		92 109	705.025	1.064.774	180,479,110
1	Soil ande I					1	11	241
AB.41111	Transporting soil ity diamp trucks	700 m3	109.60			968.671	1,285 821	217.912.812
1	Distance = 300m truck 5T, Soil grade I				1 m		*	÷4
		-			-			
0	* Sizns of witherway transport	tysiem (1.00	-			150.000.000	150,000,000
	* Protective fence for works	2020	1.00				400.000.000	400.000.000
	* Construction of landscape	system	1.00				5,000,000,000	5,000,000,000
-	* Shrice Management & operation building	system	1.00				200.000.000	200.000.001
-	*Oil station for operation (20m2)	system	2.00	-			50.000.000	100.000.000
-	* storage area, electricity & water supply	sistem	1.00	-			400.000.000	400.000.000
¢	* Mechanics			-		-		544466-55
-	Valve zate (10 5x8im)	tet 1	10.00	1		-		
-	Shuite sate (\$v\$)m	381	8.00					
-	Hyüraalic Oylinders	get	10.00	-				
-	Harches (30ad)m	cel -	1.00			· · · · · · · · · · · · · · · · · · ·		
-	Gantry runnes 50T	ciana-	2.00			1		
-			-			1		
-	THE P. P. A. S. MICH.			*	1			
	2- Ben Tre Sinice Br=(4r10+30)m-PA1			*			-	242 473 574 475
C	Since to be located in the river-hed			-				
	* Sine area							
AATIII	Site Elearance	100 m2	438.00		175,008		223.921	97, 193, 646
AA.12111	Cutting down trees in flat ground Drees =30cm	free	1.000.00	1	22,105		28,159	28, 158, 409
AA 13111	Dissing tree stamps Dree =20cm	tree	1.000.00	1	35,845		45.931	48,930,767
AA 13211	Dissing built of water coconut Dbush =30cm	free	800.00	1	97,635	-	124,367	74,819,911
AE 13214	Entimalaments e =1 6T/m3	3.62	460.00		149/216	1	190.070	87,432,035
AH 11212	Soil Excavation for enjomkment - Soil Grade I	1:52	402.20		114.715		45 455	71 607 940

Code	and the second se	MIRE	Volume		Price		THEFT	Record
NOTES	Welk Idea's	1		Material	Lalior	Machine shift	fotal price	Autoant:
AB.22121	Digging and transporting organic toil in a distance = 50m	100 m5	10.42	-	-	670,462	901.000	12.541.914
	Bulldozer = 110CV, Soil Grade I							
AB.1012	Embankment in combination with service roads, K=0.9	imi	700.00		132,888		160,951	19,255,958
	Using soli from the estrayated pit for embankment	1.1.1.1.1.1		1		1 11		201
AE 64111	Enflankment in combination with service roads, compressor 97 E=0.9	100.43	21.60		320,538	700.449	1.482.638	31.06.25
AB 14822	Digging soil for embaniment by excavalors <=0.5m3	100 mE	23.10		119,741	636 404	1173.213	19,549,600
1.00	Soll grade II	-					1987 I	
AB 41112	Transporting sail by dump mucks	100.55	23.10			1.198.557	1.607.492	37.144,608
I Company	Distance = 300m, muck 5T, Soil grade II	4,751,1	100.000.00		100.00	1.007 1.4	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
AB. 13942	manual embankment of service roads K=0.9	Time	-188.00		132,686		168.951	31.752.757
1	Using soil from the excavated pit for embankment		-		-	1		
11143 EA	Eminathment of service roads, compressor 9T K=0,9	100.03	5.63	-	320,538	799.448	1.482,885	8.847.232
AB 24122	Digging soil for embankment by excivations =0.2m3	100 m8	8 19		119.741	818 404	1.275 213	7.422.168
1	Soil grade II					1	× 1	
21114 BA	Transporting soil by dump trucks	100 mE	8.19			1,198,557	1.607.992	3,556,593
-	Distance = 300m truch ST.Soil grade II							
AB. 13111	Manual embankment of site ground	1m2	750.00	1	103.182		121.406	38,654,591
1	Using soil from the excavated pit for embankment							· · · · · · · · · · · · · · · · · · ·
AB.62111	Embankment of site mound by commenter 9 Ton K=0.05	100 m3	22.50		136,221	492,036	834,566	18,784,479
AB 24122	Digging soil for embankment by excavators =0.8m3	100 m3	24.08		119,741	838.404	1,279,213	30,797.053
	Soll grade D					1 1 1	P	
AE 41112	Transporting sail by dump works	100.45	34.08			1.196.557	1 107 992	33,742,400
1.1	Distance = 100m, truch 5T, Soil grade II					1		
AE 11512	Dinging drainage ditches B=3m, H=1m, Soil graite II	1/65	307 10		167,638	1	243,585	15.555.253
AD 24228	Endonkment with armenate with thickness of 30 cm for service roads	100 m2	43:50	9.335.252	800,600	1.879.775	15,182 329	380,431,150
88,11208	Installation of concrete pipes D500mm	\$00m	1.00	54.584,409	17.799,591	8,550,545	100.978.232	100.978,232
AB 22122	Land levelling as the previous condition of site ground, distance >=50m	100 m3	40.00		1	825.682	1.109.591	= 383 644
	Bulldozer = 110CV, Soil Grade II		1.1.1.1		and the second sec		1	
GTT	Material loading and unloading terminals	to ede	2.00	25.000,000			31.844 756	13 889 517
		1.00	1-10-10-10-10-10-10-10-10-10-10-10-10-10			T1		
	Pile anying for ground treatment						· · · · · · · · · · · · · · · · · · ·	-
	+ Pile casting yard						×.	2
AB 27120	Grading the pile casting varit by buildingers = 110CV, soil grade I	100 mil	3.00			815,882	1.409.591	3.328.778
AK.41114	Mortar with grade 75 for noweling ground, 1 cm	161	1.000.00	15 802	14,884	808	35,503	39,583,200
AF. 11121	stone-lined concrete 4v6 M100, width = 25cm	1 m3	50.00	140,627	217.376	40.664	1,402,521	70, 118,052
		1.1.1					× 1	-
1	- Scaffold:							
111123 EA	Soil ambankment for settfold ity conscressor 9 T K=010	100 m3	40.90		138.321	491,035	E34,866	34,146.00E

Code	and the second	948	Volance	7	Price	1.51	+10000	
Nemis	Work Iteras			Material	Labor	Macline shift	Lotal price	Arecust
AB 24122	Disging soil for embankment by excavators <=0 2mS	100/03	44 99		119,741	838,404	1,279,213	57,551,793
	Soil grade II	-						-
AB.41112	Transporting soil by damp trucks	100/63	44.99			1,198,557	1.607.992	72,343,548
-	Distance = 300m. truck ST, Soil zade II						-	540
AB,66112	Sand entbankment for scaffold by compressor 9T, E=0.9	100 m3	40,90	9,307,143	278,125	740.522	13:202:582	539,997,873
AD 21220	Aggregate of scaffold with thickness of 10cm	100 m2	61,60	9,335,252	800.600	1,879,775	15,182,325	1,241,914,209
AD.21223	Aggregate of scaffold with thickness of 10cm	100.112	91,60	4,667,628	414.089	897,599	7,679,277	828,164,872
	+ Fabrication:							-
AG:11115	Production of pre-costel controle components	1 112	2.281.47	1,179,811	337,117	63.930	Z,017.907	4,563,436,573
· Transford	piles, column, concrete matter with crushed state 1x2 M300						-	
AG.13121	Pile reinforcement	ton	585,37	17,399,809	1.081.748	375,895	24,857,921	13,940,848,725
AG.31121	Fabrication, electron and dismantling of pile formwork	100 m2	129.29	834,723	5.288.874		7,600,175	1,007,992,082
AI.13151	Production of pile splices	ton	45,79	18,305,814	5.698.785	1,024,542	31,951,063	1,494,991,178
AI.64151	Erection of pile splites	1pm	46,79	411,280	1.738.174	279,828	3,175,142	148,564,884
AL11131	Production of driver pile of steel profiles	lan .	4.30	19,070,916	2,044,416	1,895,358	29,174,310	140,039,066
	- Pile driving		-				-	
AG 41141*	Pile transport	section	1,582,00			309.789	418:292	850 232 738
AC. IEBY	Pilot Pile Driving on ground, hammer =2 51	100 m	9.28		1 593 267	12 428 235	805.011.01	178,984,213
	Soil grade II, Pile L>D4m F=35x35cm (K=1.5)		1				-	5+C1
AC. 15223	Driving reinforced plumb piles on ground, hannier (=1.57	.m 001	17.36		1,262,178	8,284,157	12,740,404	221.173.414
1.5	Soil ande II. Pile L-34m F=35x35cm		1				-	540
AC. (6223	Driving Reinforced negative piles on ground, hammer =2.57	100 m.	125.05		1,282,478	8,284.157	\$2,740,404	1.593,187,524
AC URDOWN	Driving miniferred hatter mass on strain hammer =1 TT	100.0	22.60		15/48/4	9 040 099	19 200 405	F12 602 000
mps. where	Sail mode T Ble 1 304m E=15r35rm (E=1.3)	100 11	33.00		1.21142.014	3,070,364	10,000,000	5 10 000 000
AT IRBORN	"Drame miniferred negative rules on strained human (20 T	100.00	5 32	-	1 205 097	2,669,395	12 277 474	71-201-872
The land	Sail mais T Bis 1 dam E=15r1Sem (K=105)	300.0		-	1.323.237	5.005.2672	10,011,007	-1,001,071
AC TREED	Dispantline draine vila:	100 m	5.25		870 407	4 606 001	7 /100 79/7	37 500 007
44 74744	Dile basi breaking	5 m3	77 40	-	1 100 444	1,000,018	1 300 150	119 203 192
BTT	haine buildozer 181 ct	468	100.00		1.329.711	885 907	1 104 174	110 387 104
	and analysis the ch		100,00				11000417	
1 page 1	*Foundation pit encavation.						-	20
A8.22122	Grating of service roads for foundation pit and storage yard	100/03	18.93			265,682	1,109,581	21.004,588
	L =50m buildozer ≔i 10cv. Soil grade II	_		· · · · · · · · · · · · · · · · · · ·	-			20
AB.21238	Embankment with aggregate with thickness of 10 cm	100 m2	13.85	9,335,252	700,600	1,879,775	15.082.325	596, A50, 936
AB:68113	Soil Embankment of service roads K=0.95	100 m3	-11.25	9,307,143	278.228	911-370	13,429,074	151.110.829

Code		Datt	Votane	7	Price			
Nomas	Work Iterus	-		Material	Labor	Machine thift	Total price	Ancunt
AD 11222	Constructing and surface with stone aggregate 0-4	(00m3)	5,40	45,859,3,10	946.888	2,718,598	64,545,789	348,547.155
AB 25412	Dizzing foundation by excavators = 0 Sm3	100.m3	217.85		261,957	922.039	1,625,021	354,010,752
1	Width of foundation > 20m, Soil grade II	1						
AB.41112	Transporting soil by dump tracks	100 = 3	217 86			1,198,557	1,607,390	350,300,989
1	Distance = 300m, muck ST. Soil grade II.		-				- 21	
AB 11382	Manual foundation excavation with the width 3 m	time	3,450,00		147 374	1	187.723	847,844,580
1	Depth > 3m . Soft grade II							
AB 24(21	Manually soil digging on trucks	100 m3	34.50		92,109	705.025	1.024 774	36 734 888
AB 41111	Transporting soil by dump mucks	100 m9	34,50			965,671	1.295,621	44 358 965
Defaure 1	Distance = 300m. track ST.Soil grade I		100 million 1			1	1.000	
AB.34110	Grading the soil in the dumping area by a buildoner 110 VN	100m3	252,35	0.0		196,558	266,534	67,259,753
1	Embankment of foundation pits				A			
AB.11212	Manually dumping soil on trucks	1/13	885.00		114,215		145,485	99,657,535
GTT2	Big soil bags	beg	25,345.00	3 182			4,063	102,721,918
AB31111	Drop the big satif bags by barget as opening the bottom.	100m3	6.85			888,179	1,329,308	9,105,757
AB 24122	Digging for removal of service man & scaffold by granyatar =	100=53	16.85		119,745	838.404	1279.213	21,298,898
1	0.Sm3, Soil grade II	1	= 1					Sec.
A5,41112	Transporting soil by dump trucks	100.m3	16,85			1,196,567	1,607,992	28,773,082
1	Distance >= 300m, truck ST, Soil grade II	1 1						560
GTT	Pumping water into foundation pit 20CV	新作	500,00			134,109	247.415	197,991,727
11								
1	*Coffenium by sheet piles of pre-stressed reinforcement concrete							
AC.com	Driving steel sheet piles above the water surface	189 m	431.45	61.014.785	3,351,403	47,542.277	109,388,527	46,764,230,025
1	Pile L > 11 m. Soil grade II (deprecation of 30%)						1	
AC CONCO	Driving steel 1450 piles above the water surface	100 m	111.74	19,107,708	3,489,051	31,730,510	71,399,088	7.977,883,900
100.070.4	Length > 12 m. Soil grade II (deprecation of 30%)		100 100 000		1.00	1.000	1	
AI.11911*	Production of fixed frame system (deprecation of 30%)	<10n	60,40	7.775,097	5,702,845	2,163,294	20,075,055	1,212,683,341
AI.63321	Erection of steel structure under water	- IDin-	60,40	618,883	2,474,820	2,058,048	8,708,48#	405,068,595
AI.63821*	Dismantling of steel structure under water	- (IDIT)-	60,40	371,330	1.484,892	1,234,829	4,023,380	243,041,160
AC.23220	Dispantling sheeting pile underwater	100 m	431.45	1	1,857,191	18,018,185	23,888.977	10,306,899,075
AC.23120	Dismantling steel profile piles under water	100 m	-111.74		1.128,650	8,545,369	13,048,179	1,457 734 715
1	* Econecute pain with dvices	-						
A8.22121	Distance and transporting organic soil in a distance = 50m	100/173	5.40			670 482	90# 000	4 885 398
	Bulldozer = 110CV Soil Grade I							
AB 17212	Disming channels by encayabar = 0.8m3	100/03	52.00		1.872.142	1.011.548	2725.048	141 702 583
	Width = 10m Soil grade I	1.00					-	~
AS:22122	digging and levelling the lagoon in a distance <= 50m soil grade I	100 m3	40.00			825,682	1,109.591	++383,644

Collè	Marca Marca	Uall	Valurae		Price		Total Strice	10100
NOTES	Wold TERES			Material	Labor	Mashine shift	Total price	Amount
AD 21228	Embankment with aggregate with thickness of 20 rm.	100 m2	15,00	9,335,252	800.600	1.879.775	15.182.325	227.734.879
· · · · · ·		1 1	1					~
	* Server construction:		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
AF. 11225	Concrete of bottom slabs with stone 1=2 M300 B-250cm	1m2	7 230 00	1,310,542	362,908	40,857	2 (88,53)	15,809,213,355
AF 12145	Contrete of sige posts. Thickness > 45cm	1m2	4 985 48	1,359,700	788.861	98-058	2,864,830	14,281,589,458
	Height = 15 m, concrete mortar with stone 1%3 M300							-
斯-12145	Concrete of centre piers, Thickness > 45cm	TeS	2.265.59	1,358,700	783 861	98,058	2,864,880	6 490 085 854
	Height = 15 m. concrete mortar with stone 1x2 M300						1.000	
新世物	Concrete for bulkhead box. Thickness - 45cm	1(m3)	498.00	1,358,700	788.884	96.058	2,864,690	1,426,585,747
	Height >= 16 m. concrete mortar with stone 1x2 M300	1.1.0				1	1	÷.
新世報	Concrete for bulkhetd floor, Thickness > 45cm	1/m5	1,099,00	1,358,700	748,881	96,058	2,864,690	3,119,582,085
	Height = 16 m, concrete moctar with stone 1x3 M300					1		-
AF /12915	Concrete with stone 1x2 M300 for transport bridges	1 #3	2.557 00	1,197,168	710.974	98,958	2,559,650	6,545,024,138
AF (13)15	Concrete with stone 1x2 M200 for transport bridges	1 #8	35.00	1,034,028	710.974	96,058	2,351,852	155,122,104
AF MINS	Concrete for pulling system of rock valves 1x2 MB00	1#8	263 00	1,345,379	382,610	96,068	3,068,98/2	807 142 375
AF 12225	Concrete for pulling system of rock values 1x2 M200	1 mai	17.00	1,192,245	982,610	96,058	2,861.184	48,640,138
AF 15313	Concrete of stone slab 1x3 M200	1,003	44.00	1,034,028	602,585	58,118	2,182,778	95,182,133
#11212	Concrete of stone slab In2 M150	1 Tm8,	270,60	950,506	302,116	40,857	1,650,484	446,951,018
AF 11121	Crushed stone concrete 4x6 linting, 2 > 250cm	1.mői	583,00	840,827	217,378	40,684	1,402,321	817,553,169
AIC 特征	Lining mortat grade M75 with thickness of 3 cm	3.m2	2,108,87	22,123	22,811	808	58,323	128,368,432
AF 92111	Different types of metal formwork	100+2	482.15	5,718,284	8,237,924	511,011	18,461,427	8.901,115,901
AF 81522	Fabrication of different tetriforcement	Tor .	2,212,93	17,399,809	2,078,999	397,261	25,345,802	58,088,373,928
AL 1110	fabrication of couplings by PVC plates	Tm	379.00	292,821	473,444		978,080	389,928,781
AL 25142	Erection of rubber bridge beams	0652	90.00	578,465	753,206		1.686.258	152,663,084
AL 16122	Spreading geotextile fabric fabric on land	100 m2	11,49	3,350,688	215.689	Press and press	4,542,818	52,198,958
091.5	Spuending geotextile fabric fabric underwater	100 m2	285,62	3,455,417	247.843	482,802	5,365 793	1,592,580,801
035.4	Drop stone gabions underwater	nE	11,064,00	355,210	346,440	1.000	895,029	9,902,599,768
065.2	Buoys & raft for dropping stone gabions	+Den S	1,106,40	9,938	34.810	50,393	124,699	137,900,615
GTTI	Gabion wire mesh	nZ	84.654.00	45,000	The second	1.	57.321	4 852,415,101
AC.11122	Driving sheeting piles with Lpile = 4,5m Suil grade II	100 m	84.80	578,848	581.190		1,441.931	93,437,115
AD 21236	Construction of road surface with aggregate d=30km	100 m2	9.00	9,335,252	006.006	1,879 775	15,182,325	135,840,903
AB.68113	Sand embanisment for road bases by commessors 9T X=0.95	100 m3	34 50	9.307.143	276.326	911,370	13 432 074	483,408,541
AB.84112	Embankment for rund bases by compressors 9T E=0.9	100 m3	33 30		320.538	799.448	1,482,865	49.371,730
AB 24/32	Digging soil for embaniment by excavators =1 25m3	(00.m3	35.23		199,741	853.949	1,300,104	47,822,797
	Soil ende D		1					×.
AE 41122	Transporting soil by dumm trucks	100.m3	65.66			1,026,736	1,379,378	50.544.251
	Bistance = 300m.truck 71,50il grade II							-
	* Wine wall				1		201	

Colle	0	Uell	Voisne		Price		Talan	Acres 1
Nerres	WOTH (EVEL	(here)		Material.	Laber	Machine chift	10(3) yrice	Amoest
AB BE143	Sand enformement by Vibratory Rammer: K=0.95	100 46	33	9.307,143	882,400	699,439	13,919,281	123 603 198
AB 88M3	Sand embanitment by compressors #T K=0.55	100 #3	54.35	9.307,143	278.335	911 370	13,432,074	719,689,396
AB.05130	Soft embankment for wing will by vibratory tammers R=0.55	100 #3	89.75		2, (90.753	1,438,068	4,698,397	317,748,087
AB,84113	Soil embankment for wing wall by compressor 9T K=0,95	100 m3	162,75		110.530	1,119,227	1,912,389	311,238,060
AB.24121	Digging soil for embankment by excitators =0.0m3	100 mB	262.73	1	92.109	705.025	1,059 174	279,742,62
1.11	Soil grade L	10.0-1				1		
AB. 41111	Transporting soil by dump macks	100 m3	262.73		- 10 Million - 10	966.871	1.295,621	337.764,858
1.	Distance ≈ 300m_truck 57,5oil grade 1			-	1	I and the second	100	*
	1. Pinto Pintone in the second		1.00			1	150 000 000	100 000 000
	CONTRACTING CONTRACTING	system	1.00				1.50,000,000	150 000 000
	* Protective rence for with 5	system	100				400,000,000	+00 000 000
	* Construction of Englishing	cyatem	1,00				202,000,000	3,000,000,000
	· Shice Management & operation onstants	eystem	1,00				200,000,000	200,000,000
-	Ou station for operation (Juni)	citiveur	2,00				50,000,000	100,000,000
	. HOWER WENT SECTION & MERS STOOLA	claseur	1,00				400,000,000	+00,000,000
-	* Mechanics	-	- 4 00				1	
-		22	4.00		C			
	Simoe gale (ana)m	22	5.00					
	Hydraulic Uvanders	22	10.00					
-	Harches (JUTA) en	12	1.00					
-	Gaury clanes 501	piece	2,00					
1	6. Ban Ro Sinica Be-(1+10)m-		-					478 85 50
	* Size area	1					-	
AA 11111	Site Clemance	100-72	338.00		175.006		222 301	88.276.797
AA 12111	Cutting down trees in flat ground Dates =20cm	t/ee	1.982.00		22,106	1	28.158	55,609,967
AA 13111	Dizzing tree strings Dtree =20cm	tree	1.982.00		28.843	*	46.961	95.046.760
AA.13211	Dizzing bush of water coconut Dbush == 50cm	t/ee	600.006		97.635		124.367	74,619,911
48 13244	Dink Trung Shuce	Timűt	2 122.00		149,218		190.070	409(327,783
AS.11212	Soil Excavation for embankment - Soil Grade II	1 mã	2 270.54		14.215	7	148,485	390,330,544
AB.22121	Disging and transporting organic soil in a distance -= 50m	100 #3	17 34			870,482	961 007	15,823,332
1.000	Bulldozer = 110CV, Soil Gratie 1							
AB 1331T	Embankment in combination with service roads, E=0.9	1/m2	1.251.00		(32,656	11	168,951	211,357,498
14	Using soil from the excitated pit for embankment	1.0					1.1	
A5,84412	Embankment in combination with service roads, compressor 9T N=0.9	100 m3	37,62	-	120.530	799.448	1,482,635	55,635 447
AB 14/22	Digging soil for embankment by excavators =0.8m3	100 m3	41.27		919.741	838.404	1.279.243	52,795,879
1	Soil grade D						-41	+ (

Cilde	10 a 157	Unit	Villeme		Price		The ALL	Imount
NOTES	WWK (1998)	·		Material	Lalier	Moeline shift	Total price	Anount:
A8,41112	Transporting soil by dump trucks	100 m2	41.27			196,557	1,607.992	10.355.035
1	Distance = 300m truck 5T, Soil grade II				-	-		- 1
AB. 13912	manual embandment of service roads N=0.9	1m2	133.00		132,836		162,951	23 345 215
	Using soil from the escavated pit for embankment							-
AE 64111	Enforthment of service made, compressor 9T K=0.9	100 -021	2.12		320,538	700.449	1.482.635	8 (23.38)
AB 14822	Digging soil for embankment by excavators <=0.5ms	100 112	4.54		119,741	636 404	1278.213	5,811,465
	Soll stade II						~	
A8,41112	Transporting soil by dump trucks	100 m3	4.54		I	1.195.557	1.607.992	7,305,106
	Distance = 300m; truck 57,501 grade II		1000		1.1	1		
AB.13/11	Manual embankment of site ground	Tm3	100.005		103,162		131.406	78.843.673
A	Using soil from the excavated pit for embankment					- TI		
AE 62111	Eminakment of site ground by compressor 9 Ton K=0.01	100 mS	13.60		196(321	452,036	634,868	15 027 683
AB 14111	Digging soil for embankment by excavators =0.8m3	100 m3	19.80		119 741	838.404	1.279 218	25.328.417
·	Soil grade II						· · · · · ·	~
21114 BA	Transporting soil by damp tracks	100 m3	19.80			1,198,557	1.607.992	31 838 295
	Distance = 300m, truck 5T, Soil grade II					1	× 1	
AB. 11512	Digging drainage ditches B=3m, H=1m, Soil grade II	1m3	1,592.00		187,636		213,635	339.947,762
AD C 228	Embankment with aggregate with thuckness of 20 cm for service roace	100 m2	1,8D	9,335,252	005,005	1,879.775	15,182,225	783,407,985
30511.88	Installation of concrete pipes D500mm	100m	1.20	54.584.409	17.798.591	8.650.545	100.978,282	121,173,878
AB 22122	Land levelling as the previous condition of site ground, distance ==50m	100 m3	78.50			825,682	1,109.591	84,883,719
	Buildaner = 110CV; Sail Grade II				ā			
GTT	Material loading and unioacting terminals	piece	1.00	25,000,000			31 844,758	31,844.758
1		1.000					×	
	Pile driving for ground treatment				-	1	×	
	+ Pile casting yard:	1.00						
AB 22922	Grading the pile casting yard by bulldozers > 110CV, soil grade II	100 m2	+,20	1		825,662	09.591	1.331.509
AK:41114	Mortar with grade 75 for noweling ground, 3 cm	1m2	400.00	15.802	14,634	606	10 865	+5.833,280
AF.11121	stone-lined concrete 4x6 M100, width > 15cm	1n2	20.00	140.627	217 378	40,664	1,402,321	38,048,421
1		1.1.1	Tes					÷
	+ Scaffold:						×	×
ABIEZIII	Soil embankment for scaffeld by compressor 9 T R=0.01	100 mE	3税		198,321	491.038	E34,888	3 072 308
AB 14411	Digging soil for embankment by excavators =0.8m3	100 m2	3.54		119,741	836404	1,275,218	5,037,029
1	Soil grade 🗉	1						
AE 41112	Transporting soil by dump trucks	100 m2	3.94			1,196,557	1.807.992	6,331,623
	Distance = 300m, truck 5T, Soil grade II	1					× .	× 1
AE.66111	Sand embaukment for scaffold	100 m3	5,05	9,307,143	276,328	5\8.547	12,904,179	36,295,144
AD,21236	Aggregate of scattold with thickness of 20cm	100 m2	7.35	9,335,252	005,005	1,879,775	15,182,325	1,741,914
AD 2*229	Aggregate of scaffold with duckness of 10cm	100 m2	7.第	4.887.626	414,069	897 599	7,873,277	31.519.480

CHER	August 1	Unit	Valem		Price			1.00
Norres	Www.lises	1		Material	Labor	Mashine shift	i otal grice	Amont
		î î î					~	×
	+ Fabrication:	1. 11				1		1 A A
AG.11115	Production of pre-cased concrete components	1 m3	121.79	1,179.611	337,117	63,930	2,017,907	320 836,268
	piles, column, concrete mortar with crushed stone 1x1 M300	1.00	and a second second					
AG.13121	Pile ranforcement	Ion	- 45.46	17.399.809	1,561.746	075,695	24,857.921	1.120.702.504
AGIEHZT	Fabrication, erection and dismantling of pile formwork	100 m2	10.39	834,723	5,289,871		7,800,375	B1,028,215
AI.13151	Production of pile splices	ton	12.72	15,305,814	5,696,765	1.024,542	31.951.053	408,737,288
A1.64151	Exection of pile splices	00	-12,7%	#11,280	1,785,174	279,828	3,175,142	40,419,555
ALIMST	Production of Anver pile of steel profiles	lon .	2.40	19.070,516	1044.418	1,85,35	29, 174, 610	70.010.545
-	+ Pile driving:	1			And And			
AG ATTAT!	Pile traisport	: modose:	134,00			309.769	418,382	55,701,810
AD.15229/	Pilot Pile Driving on ground hammer =25T	(00 m.	1.00		1.895,287	12,426,235	19, 110, 606	19,+10,606
	Soil grade II Pile I.: DAm F=35x35cm (K=T 5)						× .	-
AG.15223	Driving reinforced plumb piles on ground, hammer =2.57	100 m	3.40	1	1,282,178	8,284,157	12,740,404	43.317.374
	Soil grade II. Pile L-OAm F=35n35cm			1				
AC 15223	Driving Reinforced negative piles on ground, hammer =2.57	(00) /5	3.04		1,262,178	9,284,157	12,740,404	102,432,849
1	Soil grade II Pile L=34m F=35x35cm	1					-	
AC 15223**	Driving reinforced batter piles on ground, hammer =1.5T	(00) 75	2.40		1 514 814	9.040.969	15.288 485	38 652 384
· · · · · · · · · · · · · · · · · · ·	Soll grade E. Pile C/D4m F=35x35cm/K=1.27						~	
AC.15223**	Driving reinforced negative piles on ground, hammer =1 5T	100.00	1.44		1.325.287	E.698.365	3.377.424	-19.283.491
1	Soil grade II Pile L-DAm P=35x35cm (K=1.05)					1		-
A0.29110	Dismantling driving piles	100 m	1.44		572,437	4,695,928	7.039.782	10,137,286
AA.21241	Pile head breaking	163	12.5	-	1,098,414		1.399.150	8.828.634
GTT	using bulldozer 180 cv	shift	50.00			888.397	191.871	59,892,562
								-
	*Foundation pit excavation:						~ ~	~
AB 17110	Grading of service roads for foundation pit and storage vari	100 m3	3.60			\$25 682	1,105,391	9,754,402
	L =50m milidoper =100v. Soil grade II							-
AD 19229	Einhankanent by a gregate for service road with the thickness of 20 cm	900 m2	27.45	9.335.252	600,600	= 879.775	15,181,325	500.570.082
AE.65113	Soil Embarkment of service roads K=0.95	100 m3	9.10	9,307,142	276.328	911.370	3,432,074	122,231,870
AB 25412	Soil from foundation excavation is dumped directly on tracks, soil grade	100 m3	55.07	1000111112	261.957	960.929	1.625.021	89,489,888
AB.36111	Foundation excavation on the weak and soft soil	100 m3	185.21		1.954.279	1,709.650	4,781,376	788.628.980
	by two astronators	1			1000 00000		and the second	
AB 11362	Manual foundation estavation with the with = 3m	1:03	4.620.00		147.374	1	187 723	H87 280,568
	Denth > 3m Soll grade II	1.00				1		
AB 74178	Soil taken on trucks by encovator (=0.5m3	100.45	48.30		92 109	765.025	1.064.774	40,407 536
AB 4HHH	Transmanning soil by dump mucks	100 mS	786 48			956.671	1 205 821	347 507 366

Vietnam

Comi	the st theory	Ueil	Vaiwree		Price	1	*See 22.5	
Nottal	WOR DEVES			Material	Liber	Machine shift	Total price	Amount
	Distance = 300m/truck ST, Soil gade 1	1 1	-				×1	
AE 11111	Excavating thick sludge, transport in 30 m	1 mB	4,983,00		173,154		220,575	1,099,123,378
AE.11121	Transporting in 70 m more	1 mž	4,983.00		18,052		22,998	114,569,661
AB 34110	Grading the soli in the dumping area by a bulldoger 110 V?	10Xin3	316.31			196,338	268 534	84,307,242
AB.24122	Digging for removal of service mail & scaffold by excavator 🗢	100 13	25 34		119,741	838 404	1,299,213	22,415,237
	C. Ban 3, Soli grade II	-						
AB.41112	Transporting soil by dump trucks	100 #3	25 34	1.100	-	L198,557	1,807,382	40,746,509
1	Distance = 300m, truck 5T, Soil gade II		10-10 Mar 10		6		- (m)	
AB:11512	Digging dramage ditch at the bottom B =3m H =1m, soil grade D	1 ma	263,00	6 III	107.638		212,565	55,519,107
AK.98110	Construct a stone layer 2x4 as a buffer for the drainage ditches	1 m5	260,00	572,444	318,499		1,134,874	295,067,357
AL 16122	Spreading geotextile fabric fabric	500 m2	9,15	3,350,688	215,889		4,642,818	41,566,767
GTT	Pumping water into foundation pit 30CV	fide	200.00	1		184,109	247.415	49,482,932
AC.11122	Driving theeting piles with Lpile = 4,5m, Sml grade II	100 m	135.00	570,840	581,190		1.441.931	194,660,668
AB.11211	Manually digging groded soil - Soil Grade I	1 m3	4.000.00	1	32,898		105,594	422,377,155
AB.11911*	Manually transporting soil in 300 m. Soil Grade I	1 m3	4,000,00		171.322		1\8.223	872,912,209
A6.13112	Soil re-embankment due to erotion K = 0.9	1 ma	4,000,00		123,425		157,218	828,872,324
A5 24122	Dizzing soil for embankment by excavators =0.8m3	100 mB	44.00		++9,74%	838,404	1,279,213	56,285,372
	Soll grade II							
AE.41112	Transporting soil by dump trucks	Em 001	44,00	1		1,196.557	1,607,992	10,751,834
	Distance = 300m, truck ST, Soil grade II	1			-		- 1	
		-						-
10000	*Coffentium at the downstream & upstream.	-						~
	+Presusation							
AB 22122	Grating the democration of the sull taken yard	100 m3	6.42	i		825,682	1.109.381	F 123.573
	L=50m bulldozer =110cv, Soil grade II	1.000					-	
AD.21228	Embankment with aggregate with thickness of 20 cm for denantation	100 m2	8:05	9,335,252	800.600	1,879,775	15,182,325	122,257,749
1	+Embankment of cofferdam			E. I				1.00
AE 63111	Embankment of cofferdam by compressors 9T, dt =1,650 mB	100 mB	164 87		272,641	549,187	1,065,3/3	178,718,418
	soil taken from the soil ground				1			
AB:24122	Digging soil for embankment by excavators :=0 &nG	100 m3	181.14	÷	119,741	838,404	1.279.218	231,712,804
	Soil grade II				-			
AE 21112	Transporting soil by dumn bucks	100 m3	181.14	+	-	1 198 557	1.887.392	291,266,790
	Distance = 300m muck 5T. Sail grade II	-						-
AB 63111	Embankment of cafferdant by compressors 9T, dt =1 650mB	500 mB	45,88	1	272,641	549,187	1,065,313	50,879,452
	soil taken from diversion cannel	1						
AB.66111	Sand entoankment for anti-subsidence	100 mB	2,00	9,307,143	276,326	518,547	12,904,179	25,608,357
AD 21228	Embankment with aggregate with thickness of 30 cm init dito	100 m2	4,60	9,335,252	800,600	1,879,775	15,182,325	72,875,161
AB.71220	Pha de oury tau hur cing suit = 1000CV/ L=500m	1DXhrs3	141.03		158 229	5,965,939	8 218 371	1 139 107 309

Cotte		Uail	Vaiune		Price	1.1.1	Transa .	1
Nemes	Wath lights		-	Material	Labor	Machine shift	Total price	Alaosai
1		1		1				-1-
	+Since connecting path:							
A8 22121	Digging and transporting organic sold in a distance = 10m	100 43	13 50		_	6/0.452	301.000	11,568,494
Amount	Bulldozer = 110CV, Soli Grade 1	100.00			100.048	200.140	4 144 5412	148.000 (28)
AB.04112	Emodukment for 100 d 05562 of Comptersors A1 V=072	NUU MB	100,00		120.0.30	(99,448)	1,462,000	148,203,400
ARI S ALISS	Sou raken mom me storage yara	100.00			110.714		1000 100	A40 795 100
AB-24122	Ligging soil for emountment by excavators ==0 ans	100 ms	110.00		1190741	508,404	12/9/213	140,/13,429
17.1	Soul Suger T	100		1 - III - I	1	1 10 10 10 10		-
ABLETETZ	1 tansparung sou av aunu mucas	100-193	+10.00			1,910,408	1,001,301	282, 911, 991
	L'Istance - =100/mi mane 31, Soli grade li	100 0			10001 21011	1.000.000		
AU 21236	Embankment with aggregate with thackness of 30 tm	100-772	51,50	9.585,252	siių noo.	1,8/5113	15, 182, 525	589,337,199
	Diversion cannel	1 1						
AB 22122	Grading the demarcation of the soil taken yard	100 mB	4.88	×.	\sim	825,682	1,109.591	5,414,805
1	L=50m, bulldozer =110cv, 5oel grade II			~		2		
AD.21228	Embankment with aggregate with thicknest of 20 cm for demancation	100 m2	6,10	9,335,252	800,600	1,879,775	15,182,325	92,612,184
AB.27212	Digging the diversion canal by escavanus = 0.8m3	100 m3	101.40		1,072,143	1,011,543	1,725,048	176,319,848
11 11 1	Width == 10m, Soil grade II	1.1			× ×			
AB. 41112	Transporting soil by dump trucks	100 m3	101.40	1	· · · · · · · · · · · · · · · · · · ·	V 198 557	1 807.390	63 060 367
+ +	Distance = 300m, much ST, Sail grade II				× .	10 A. 10		
AB 22122	Land levelling as the previous condition of site ground, distance =50m	100 m3	101.40	1 1a (1		855,882	1,109,591	112,512,587
41.	Bitlidozer ⇔ 110CV, Soil Grade E			(in 1)	*	-		-
-	Seaver construction		-				-	
15 11225	Concerns of hottom : labs with stone 1x2 M300 B-23/Jem	East.	457.04	1 340 680	280-002	40.357	2 186 830	1 001 200 Alto
AF 19145	Concrete of edge mosts. Thirkness - 45rm	1.05	09.06	1,958,700	788.861	08.058	2 884 830	747 381 970
	Height and Information months and the second second		200.20	1,359,169	100.0001		2,001,001	111,001,210
45 19145	Concrete of centre piers. Thirkness 15m	1.05	171 30	1,958,700	789.961	08.059	2 884 830	490.063.000
	Haight an 16 m. concrete morter with store 121 MBO	- Trailer	11122	1,339,169	102.001		- corrigion	-20,200,202
AF 12445	Stone concrete 1x2 M300 for energy distanter, while the use	1.01	386.00	1 358 700	798 88%	96,058	2 864 630	1 049/058 851
45 10145	Stone contrate 1v2 M300 for anergy distunctory option of the nadity fields	1.02	389.70	1 358 700	782 884	06.058	2 864 830	1.059.053.716
AE 10945	Concrete with stong 1v1 M300 for transport hodges	1.02	347.04	1 107 160	710 074	06.058	2 580 850	889 735 075
45 10343	Concepts with store 1/2 MD00 for transport bridges	1.02	21.00	1,754,100	710.074	06,050	1 354 357	75 160 060
AC UNINE	Concrete for colligit matters of each sphere 1/1 MIAN	100	(50.00	4 045 370	081 640	06,059	3 080 060	/3/203/200 /84 080 067
AC 199993	Concrete for colling system of rock values 1x2 x1200	1.02	M 00	1 192 245	02,010	20,05	2.000,902	AU 086 950
AC 18743	Countrate in putting system of our visives (\$2.51200	1.60	757 04	1,724,008	200 138	40.367	1 258 971	451 608 000
AC 11715	Come controls in a straighter comen MDD	1.00	117 28	1,024,025	200 115	40,307	1 752 971	000,000,002
AC 48315	stanta contrata 1x1 ther lat man M100	5.03	549.36	1 034,020	805 585	40,507 60,110	2 80 778	1 195 797 250
GL 20015	suche events are a ver tiler the error of the	1194	040(41	1 (0,000,002,0	006.200	20.110	A. 185, 17.0	1,100,001,000

Code	Man Inves	A PEC	Aolause		Price		Tundage	a de contra
Normes	WORK IDEAS			Material	Labor	Machine shift	Intal price	Amost
AF. 11212	Concrete of stone size 1x2 M150	162	31.26	951.506	302,116	40.857	1.650.484	1511,638,163
AF.11121	Crushed stone contrele 4th limits B 120tm	1 (63)	(79.80	840.627	217,376	40.854	1,402,521	252 137 324
AK.41124	Lining mertir grade M75 with fluckness of 3 cm	4 m2	2.688.00	22, 123	22,811	808	58.323	158 555 495
AF.82111	Different types of metal formwork	100mt2	79,59	5.718.284	8,237,921	511,011	18,461,427	1.489.412.399
AF.81522	Fabrication of different reinforcement	ton	308.44	17.399.809	2,078,999	397.281	25,345,802	7,786,974,469
ALIAN	fabrication of countings by PVC plates	+m	130.00	292,824	473,444	-	976.060	128.887.607
AL 25112	Erection of rubber bridge bearing	piece	#0.00	578,465	753,206		1,898,256	67,850,251
AL 18122	Spreading geotestile falmic fating on land	100 m2	81.96	3,350,688	215,689		4.542.618	372.329 202
035.3	Erection of stone gabinus (purchased gabinus)	m3	743.00	489.789	323,233		1.035 620	789.465.808
GTT1	Gabion wire mesh	m2	6.588.00	45.000			57.221	378.386.829
AE1!!!!	Ashlar M100	1 (73	21.40	875.198	381,449		1,600,706	34.255,102
AK 95110	Making sand filter beds	100 mS	2.09	24,316,842	1,081,354	1,078,199	33,800,913	70.843,908
A# 96191	Making filter beds for crushed-stonel x2	100 mE	4.10	52,749.075	1.584,287	1,211.518	70.837.516	298.867.518
ACT11122	Driving sheeting piles with Lpile = 4.5m. Soil grade II	100.001	1,872,29	570.840	561,190		1,441,931	2,441.328,428
AD 21229	Construction of road surface with aggregate d=20cm	100 m2	9.00	9.335.252	008,006	1,879,775	15, 182, 325	198,840.928
AE SEMIS	Sanit ambankment for road bases by compressors 9T K=0,95	100 m2	34.50	9,307,142	276,328	911,370	13,432,074	483,406,541
AE 54112	Emirankment for road bases by compressors 9T K=0.9	100 mE	33.30		320,538	786 449	1,482,635	49,371,730
AB 21122	Digging soil for embankment by encavators =1 Dim3	100 m3	35.82	-	119,741	A53 049	1.300.104	47 201 797
	Soli grade II	1				· · · · · · · · · · · · · · · · · · ·		
AE 41122	Transporting sail by dump cucks	400 mE	38.63			1.026.738	1.379.778	315(3)
	Distance = 300m truck TT, Soil grade II		1.000		1	1	24	
E proven	* Wins wall		1	5-mar 1		1		
AB. 86145	Sand embankment by Vibratory Rammers K=0.95	700 mS.	7.50	9.307.543	382,400	699.439	13,919,281	104 394,609
AB.65113	Sand embaukment by compressors 9T K=0.95	100 mS	17.50	9.307.943	278,328	911,370	13,432,074	235.061.289
AE 85130	Soil embankment for wing-wall by vibratiny runniers E=0.85	100 m3	22,50		2 190,753	1.420.053	4.698.697	105 725,163
AE 84113	Soil embankment for wing-wall by compressor 97 K=0.95	100.m6	52,50		\$20,538	1.119.227	1,912.369	100.399.881
AE 24121	Digging soil for embankment by excavators <=0 8m2	100 m3	82.50		92,109	705.025	1.064.774	87 843 815
	Sall grade 1							
AE-41111	Transporting sail by damp tracks	100 m2	82.50	- 1		958.671	1.295.821	108 101 758
	Distance = 300m, truch 5T, Soil gaste I			1			- 1	× .
		·	1 mar 1 mar	1	1.1.1			- ×
	Starts of waterway transport	system	1,00	1.1.1.1			100,000,000	100.000.000
	* Protective feace for works	system	1,00				300,000,000	300.000.000
-	* standge men, electricity in whier supply	system	1.80		1		300.000.000	3001 000,000
-	* Mecianita			1				
	Valve ente 10.5 t/ Cm+TB	sel	2.00	1				
								× .
	"- Tau Phu Sluite Bt=(1r10)un:		1	T	F		÷-	38,008,154,128

Code		3980	Volume		Prite		(THE WAY	
NOMES	WORK (Delta 3	. 75.	line a	Material	Laker	Mashine chiff.	I Mai price	Ampunt
	* Stre area							
AA. 11111	Site Clearance	100 m2	3t.00		175,006		222.921	51,494,798
AA.12111	Cutting down trees in flat ground Dires <= 00cm	free	1.156.00		.22,106		28 159	32,551,121
AA.13111	Digging tree straps Direc = 20cm	tree	1_158.00		36,843		46.951	54,251,988
AA.13211	Dieging bush of water coconut Dhuth ==30cm	tree .	500.00		97,835	· · · · · · · · · · · · · · · · · · ·	124.367	74.619.911
AE 13214	Dinh Trung Since	105	952.00		149,218		190.070	1902,946,900
AE 11212	Soil Excavation for eniordament - Suil Grade II	106	1.047.20		114,245		145 465	102,352,887
AE 22821	Diggine and transporting organic soil in a distance -= film	100 655	13.76			670.462	901.000	17 807 754
	Bulldozer = 110CV, Soil Grade I		1.1				-	*
AB. 13812	Embankment in combination with service toads, K=0.9	1 m2	1.055.00		132,638		188.951	170.242,122
	Using soil from the excavated pit for embankment			1				*
11113 EA	Eminukment in communitien with service roads, commensor PT R=0,9	100 mE	31.66		220,538	755 449	1.482.885	48,540,339
AB 34122	Digging soil for embankment by excavators =0 2m3	100 mE	34.83		119,741	838.404	1.279.213	44 549 672
	Soli grade II							
AE 41112	Transporting sail by dimp mucks	100 mE	34.82			1,198,557	1 (607 (662	· 方明 019
	Distance = 300m truck 3T Soll gode E	10.00		1				
AB 12812	manual embankment of service roads E=0.9	1 mS	24.00	1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	112,636		188.951	20.949.904
1.000	Using soil from the excavated pit for emioankment					1.		
AB.64112	Embankment of service roads, commenter 97 E=0.9	900 mS	3.74		3,20,688	709,445	1,462,535	5.500.574
AB 24122	Disease soil for embankment by excavators =0.5m3	100 m5	4.08		113,745	838,404	1,279,213	5.220.486
	Soli grade II						-	×
AE-41112	Transporting sail by dimp macks	100 mS	4.08			1.196.657	1.607.992	8.582 214
	Distance <= 300m, much 5T, Soll gade II						-	*
AE 13111	Manual embandment of site ground	1:03	800.00		133,182		151,406	78 841 678
	Using soil from the encavated of for enforthment							-
AB 62111	Embankment of site ground by compressor 9 Ton %=0.15	100 m5	18.00		136,321	492,035	834,856	15.027.588
AB.24122	Digging soil for embankment by excavators =0.5m3	100 m5	19.80		119,741	838,404	1,279,213	25.238.417
	Soll ende I							*
AB.41112	Transporting soil by diamo trucks	100 m5	19.80			1,196.557	+,607.992	11,838,335
1000	Distance 😑 Silian, muck ST Son mode II	20.0			1000	1		
AE 11512	Disging drainage ditches B:=3m, H-=1m, Soil grade II	162	714.00		167,638	7	213.535	152.464.009
AD 21228	Enrimnkment with armemote with thickness of 30 cm for service roads	100 mE	40.95	9.335.252	603 600	1.879.775	15.182.325	621 716.221
88.11208	Installation of concrete pipes D500mm	100m	0.80	54,584,409	17,738,591	8.550.545	100.978.232	80,782,985
AB 22122	Land levelling as the previous condition of size ground, firance ==50m.	100 :52	38.00			825,682	1,109.591	39.945.279
	Bulldozer = 110CV, Soil Grade II						1	
GTT	Material loading and unloading terminals	diece.	1.00	15.000.000			31.844.759	11 844.758
	Pile anvine for ground treament							*

Code	and the second	. Dart	Votane		Price		THEFT	
Nemes	work bens			Material	Labor	Maclaue thiff	I of all price	Alsonel
	- Pile ceiting yard:							
AB 22122	Grading the pile casting yard by hulldosers = 110CV, soil grade I	100 73	1:20			225,682	1,109,581	1.331,509
AK 41114	Mortar with made 75 for now-ing ground, 1 cm	1 m2	400.00	15,902	14 634	808	38,583	15 933,290
AE 11121	stone-med concrete 4t6 M100, width > 35cm	1.716	20:00	940,857	217.376	40,664	1,402.321	29,046,421
		1 1					X	
	- Scaffold:	1	1				~	- F
AB,82111	Soil emparkment for scaffold by compressor 9 T R=0.55	100 m3	3,68	1	33,221	492,036	834,866	3,072,308
AB 24122	Digging soil for embankment by encoverous =0,8m3	100 m3	3.94		119,745	838,404	1,279,213	5,037,029
	Soil gnide II						and the second	×
ABI41ME	Transporting soil by doing pucks	100 m3	3.94			1,198,557	1,607,992	6,331,828
- Company	Distance = 300m, muck 57, Sail grade II							
AB.88111	Sand enibankment för scaffold	100 m3	5.06	9,307,143	278.326	518,547	12,904 179	65,295,144
AD.21220	Aggregate of scaffold with thickness of 20cm	100 m2	7.36	9,335,252	300.600	1,879.775	15,182,325	111,741,914
AD,21223	Aggregate of scaffold with disckness of 10cm	100 m2	1.36	4,667,626	-14.009	697,599	7,679.277	56,519,480
1	+ Fabrication:	-						100
AG 11115	Draduction of transmission contrologants	1.05	198.98	1 179 811	337.117	82.090	2017 007	345 023 480
mas minas	plies rolution rot/rote mostar with emiched state 127 MR00	1 1 11		1.11.2(21)	30-110	00,001	2012 201	313,200,700
AE 13121	Pile reinforcement	data i	38.14	17 399 809	1.581.746	375,895	24 857 921	985 111.023
AG 31121	Fabrication, erection and displantline of sile formwork	100-72	8.95	834 723	5 288 671		7,800,175	89,782,591
AI.13151	Production of pile splices	form	15.68	18.305.814	5,698,765	1.024.54Z	31,951,063	500.363.961
AI.64151	Erection of pile splices	for	15,68	411,280	1,788.174	279.828	3,175,142	49,722,720
AE11531	Production of driver pile of steel profiles	nat."	2.40	19,070 916	2,044,445	1,895,358	29,174,810	70.019,543
		1 = 1	1			1		
	- Pile driving	1					200	
AG.41141*	Pile transport	section	134.00			309,789	418,382	\$5,781,810
AC: 152251	Pilot Pile Driving on ground, hammer 1=13T	100 m	0.96		1,393,287	12,408,235	19,110,808	18 435, 121
A Description of the second se	Sail gnide II. Pile L. 14m. F=35x35cm (K=1.5)							
AC. 15255	Driving reinforced plumit piler on ground, hammer ==1 ST	100 m	5.06		1,202,178	8,284_157	12,748,404	38,985,898
1	Soil grade II, Pile L>24m, F=35x35cm	1		1		and a second sec		1
AC: IBZZZ	Driving Reinforced negative piles on ground, hammer =2.5T	100 m	6,70		1.202:178	8,284.157	12,740,404	85,380,707
	Soil grade E. Pile L-24m P=35x35cm				1.00			-
AC: IB222	Driving reinforced batter piles on ground, hannier ~2.5T	100 m	2.16		1.514.654	9,940,968	15,288,485	33,029 127
1	Sail grade II, Pile L>J4m F=15435cm (R=1.2)					1000		
AC. 15209**	Driving reinforced negative piles on ground, honmer (=0.57	100 m	1.44		1,325,337	8,898,385	13,377,424	19,263,491
1	Soil grade II, Pile L>D4m, F=15n35cm (R=1.05)							
AC.25110	Disuanting driving quies	100 m	1.44		572,427	4,685,903	7,839,782	10,137,298
AA.21241	Pile head breaking	1 m3.	6,31		1.096,414		1,399,150	9,828,634

Code	1000	946	Votare		Price		Total srice	Amount
Norma	Werk tients		<u> </u>	Material	Labor	Machine shift	Total price	Alsount
вm	using bulldozer 150 cv	shift	60,00			888 397	1.199.371	71.6段275
			1				>	\times
	*Foundation pit excavation:	1						
AB 22122	Grading of service roads for foundation pit and storage yard	100 m3	5 SD			825,682	1,109,591	3,764,402
	I == 50m, bulldozer == i 10cv, Soil grade II			100.00				
ADI.21228	Embankment by aggregate for service road with the thickness of 20 tim	100 m2	39.36	9,335,252	600 600	1,879,775	15,182,325	597,424,500
AB.66113	Soil Embankment of service roads K=0.95	100 m3	9.75	9,307,143	275.326	911,370	13,432,074	130,962,718
AB.25412	Soil from foundation excavation is dumped directly on muchs soil grains	100 m3	49.00		261,957	960,929	1,825,021	90,538 024
AB.28111	Foundation excavation on the weak and soft soft	100im9	159.71		1.934 279	1,709,650	4,761.378	780,439,391
111	by two excavators	1.00						
AE 11382	Manual foundation excavation with the width > 3m	1/m6	4 156 00		147.374		187.723	130,852,511
1	Depth≥3m_Soil gmôs I	1	in the second second			1		
AB:24121	Soil taken on trucks by encovator =0.3m2	100/73	41.58		92,109	705.025	1 064.774	++ 273,233
AB.41111	Transparting soil by damp muchs	100+13	250.85			358,671	1,385,821	322,498,105
	Distance = 300m, muck 57.Soil grade I							-
AB.(1111	Excevating thick sludge transport in 30 m	168	4 963 00		173.164		220.575	1,099,123,378
AB.11121	Transporting in 70 m more	1.005	4,983,00	-	10.051		22,998	114,569,661
AB 34110	Grading the soil in the dumping area by a buildoner 110 WY	100m2	300,68			196.386	266,334	50,141,321
AB 24(22	Digging for removal of service road & scaffold by sucavator =	100.m3	26,37		+19,741	535,404	1,279,243	33,732,847
1	0.8m3, Soil grade II							
AB:41112	Transporting soil by dungs muchs	100 #3	26.37			1,198,557	1,607,992	42,402,741
1	Distance = 300m, muck ST, Sail grade II							
AB 11512	Digging dramage dirth at the bottom B = 3m, H = 1m, soil grafte II	tima	260:00		(37,638		213 535	55,519,107
AK 38110	Construct a stone layer 2n4 as a buffer his the drainage disches-	1.08	260 00	572,444	318,409		1:134.874	295 067 357
AL 16122	Streading geotexale fabric fabric	100 m2	9.15	5 350 688	215.089		4,542,818	41,566,787
GTT	Pumping water into foundation pit 20CV	shift	200.00			184.109	247.415	49,482,982
AC:11122	Driving sheeting piles with Lpile = 4.5m Soil grade II	100 m	135.00	570,810	561,190		1,441,901	194,660,655
AB 11211	Manually dispins groded soil - Soil Grade I	1 m3	4,000.00		82,898		105,594	422.377.155
AB 11911*	Mamially transporting soil in 300 m. Soil Grade 1	1 m3	4,000,00		171.322		246 228	872.912.209
AB.13112	Soil re-embankment due to erosion $K = 5.9$	1.63	± 000.00	T	123,425		157,248	838,872,324
AB 24122	Disging soil for embankment by excavators <=0.2mS	100103	44.00		119,741	838 404	1,279,213	38,286,372
	Soil erade II							
AB 41117	Transnamme soil lw dumm mucks	100im3	44.00			1 198.557	1,607,982	78 751 834
	Dictaines = 300m muck ST Sail enable II							
	and the second of the second	1 1	*					Dect
-	*Cofferdam at the downstream & upstream		*				Det 1	>0
	+Preparation;			11				~
A8.22122	Grading the demogration of the suil taken yard	108 = 3	4.47			825,667	1 109 591	4 593 197

Code	Work there's	Dett	t Volarie	ł	Price		- June	Amonal
Nome	WORK Iterus	1.11		Material.	Laber	Machine thift	Total price	Amonal
-	L = S0m bulldater = 110cv, Sod grate II	Concerning of the	A set		-			-
AD.21239	Embankment with aggregate with thickness of 30 tm for demotation-	100 m2	5.30	9.335,262	000,600	1,879,775	18 182 305	63,502,739
1.0	+Embankment of crifferdam	1.0			1	11 - 7 - 7	- 2.4	
AB.63+++	Embankment of cofferdant by compressors 9T, do =1.650 mB	100 m3	113.18		272,649	545.167	1,085,313	122,813,968
1	soil taken from the soil ground				11	Concernance and a	1.10.00.40	
AB.24122	Digging soil for embindment by excavators =0.8m3	100 m3	124,48		1(9,741	638,404	1.279.213	159,231,317
A	Soil grade II	1				the second second		
AB.41112	Transparting soil by damp tracks	100 m3	124.48			1,198,557	1,607.992	200,168,373
	Distance = 300m, mark 57. Soil grade I					1		
AB.88111	Sand enduminum in ant-subsidence	100/m3	2.00	9,307,843	276 326	518,547	12,904.179	25,808,357
AD.21236	Embankment with aggregate with thickness of 30 cm mit day	100 m2	7.50	9,335,262	008.006	1,879,775	15,182,325	113,887,440
AS:71220	Pha de quay tou hut cong sugt =2000CV, L=500m	100m2	75.44		(58,229)	5,965,989	3,218,871	820,031,592
1								~1
1	+5hitce connecting path:	11000	1					×1
AS:22121	Digging and transporting organic soil in a distance = Sim	100.m3	13.50			870,462	901.000	12,183,494
1	Bulldozer = 110CV, Soil Graie I		1					
AB.84112	Embankment for mad bases by trampressors 9T K=0,9	100 #3	100.00		3201-5338	798,448	1.482,685	148,388,488
· · · · · · · ·	sual taken from the storage yard	1.00	A		And in case of the local division of the loc	the second se	1	- 1 - 1 - K
AB 24122	Digging soil for embankment by escavators =0.5m3	100 m3	110.00		113.745	838,404	1,279,213	140,713,429
10.00	Sail grade II	1.5			1			
AB.中种包	Transporting soil by dump mucks	100 m3	10.00			1,910,469	2,667,382	282,411,991
1.00	Distance =1000m.muck ST.Soil gade II	100 200	1	2	1	1	1 mg 1 mg 1	e
AD.21229	Embankment with apprepriate with thickness of 20 cm	100 m2	37.50	9,335,252	000.005	1,879,775	15,182,325	589,337,199
1	The second se		1		1	11		
1	* Server construction:	1		-			-	~
AF 11225	Concrete of bottom slabs with stone 1x3 M300 B-250cm	1 #8	457 94	1,310,542	302,908	4D.857	1,188,584	1 001 299 840
AF 12145	Concrete of edge posts. Thickness 45cm	1.63	260.90	1,358,700	758.861	96,958	2,884,887	747 381 370
1	Height ≈= 16 m, concrete montar with stone 1%2 M300	1					-	
AF 12145	Concrete of centre users, Thickness > 45cm	1.68	157.95	1,358,700	798.851	98,958	2,884,830	452,462,531
1	Height = 16 m concrete mortar with stone 1x2 M300							
AE.12145	Stone concrete 1x2 M300 for energy dissipaters toward the sea	1.m3.	355.25	1.358,700	728.881	96.058	2,864,630	1,049,258,681
AE.12145	Stone concrete 1x2 M300 for energy dissipaters toward the paddy fields	1 mã	389.70	1,358,700	728.881	96.058	2,864,630	1,059:063,716
AF.12315	Concrete with stone Ix2 M300 for transport bridges	Em.1	347.21	1,197,180	710.974	96.058	2,559,850	888,735,975
AF 12313	Centrete with stone 1x2 M200 for transport bridges	- Limã	32.00	1,034,028	710.974	880,88	2,351,852	75,258,250
AF (2005	Concrete for pulling system of rock valves 1x2 M300	tim8	150.30	1,345,379	982,610	96.058	3 068 982	461,268,057
AF 12009	Concrete for pulling system of rock valves 1x2 M200	tm8	14.00	1,182,245	982,640	96.058	1,961 134	40.058 580
AF 11213	Stone concrete 1x2 of backyard M200	1.68	257.04	1.034.028	302 316	40,857	1,758,871	451,588,000
AF 11215	Stone concrete 1x2 of transition section M200	1/m3	117.30	1,034,028	302,115	40.857	1,755,871	205,080,913

Code		UNIC .	Volarse	· · · · ·	Price		· ·	Amount
Nortas	Work texts	1111		Material	Labor	Machine thift	Total price	Anteunt
AF 15313	stone concrete 1x2 thin 1at min M200	1 ma	548,41	1/034.026	802,565	58.111	2.162,778	1,186,087,850
AF 11242	Concrete of stone slab 1x2 M150	1.m5	91.28	950.506	302.116	40.357	1,650,484	150,858,183
AF.11121	Crushed stone concrete 4x6 imma, B > 250cm	1 mS	179,60	840.627	2(7,375	40,664	1,402,324	252,137,324
AK.41124	Lining morter grade M75 with thickness of 3 cm	1.m2	2,696,00	22,423	22.811	808	58,323	158,855,493
AF 82111	Different types of metal formwork	100+2	79.26	5,716,284	8.237.924	511,011	18,481,427	1.483,210,280
AF 84522	Fabrication of different temforcement	lan	395 10	17,399,809	2,078,999	397,281	25,345,802	7,733,004,083
AL 41410	fabrication of couplings by PVC plates	100	130.00	292,821	473.444		976.080	128,387,307
AL 25112	Erection of rubber bridge bearing	ciece	40.00	578,455	753 206		1 696 258	87 860,251
AL 16122	Spreading geotextile fabric fabric on land	100.m2	81,98	3,350,688	215.889		4,542,818	372,329,202
085,3	Erection of stone subjons (purchased subjons)	782	743,00	356,210	346.440	1	895,029	665,006,475
GTT1	Gabion wire mesh	m£	5.566.00	45,000			57 32+	376,366,829
AE 11114	Ashlar MI00	1m3	21.40	875,196	321,449		1,600 708	34,255,102
AK 98110	Making sand filter beds	100 #3	2.09	24,316,842	1,081,354	1,078 199	33,800,913	70,843,908
AK.98131	Making filter beits for crushed-stonel til	100 m3	4.19	52,749,075	1,594,287	1,211,618	70,837,518	296,809, 193
AC.11122	Driving sheeting piles with Lpile = 4,5m, Sml grade II	100 m	1 842 30	570,840	561,190	1.1	1,441.931	2,656,469,080
AD.24228	Construction of maid surface with aggregate d=30cm	100 m2	9.00	9,335,252	600.600	1,879,775	15,182 325	136,640,928
AB.66113	Sand embankment for road bases by compressors 9T E=0.95	100 m3	34,50	9,307,143	276.326	911,370	13,432,074	483,408,54
AB.84112	Embankment for road bases by compressors 9T K=0.9	100 m3	33,30		320.538	799,448	1,482,835	49,371,730
AB.24132	Digging soil for embankment by excavators =1 25m3	100 m3	35,65		119,741	853,949	1,300,104	47.622,797
A	Soil grade II					1		
AB 41/22	Transporting soil by damp tracks	100+53	38,68			1.008 758	1,379,779	50;541,251
	Distance = 300m, much 7T, Soil grade II							
17	* Wine walk							-
AB 88/43	Sand embaniment by Vibratory Rammers K=0,95	1001173	7.50	9,307 148	382,400	899-439	13,919,281	104,384,609
AB.88113	Sand embankment by compressors PT K=0.95	100 103	17.50	9,907,148	278.336	911,370	13,432,074	235,061,289
AB,65130	Soil embankment for wing-wall by vibratory rammers K=0.95	100 m3	22,50		2,190.752	1,420,053	4,698,897	105,725,183
AB,64113	Soil-embankment for wing-wall by compressor 97 K=0.95	100 m3	52,50		320,538	1,119,007	1,912,389	100,399,381
AB 24124	Digging soil for embandament by excavators =0.6m3	100 m3	92,50		92,109	705,025	1,064,774	87,843,815
1.	Soil ende I	1 1 1 1 1 1						H ¹¹
AB.41111	Transporting soil by dump mucks	100 m31	82.50		-	986.671	1 285 321	106.063.758
	Distance = 300m, muck ST, Soil grade 1					1 · · · · · · · · · · · · · · · · · · ·	-	
- · · · ·							1	1.23
	* Signs of waterway transport	agricem.	1.DC	100.000,000			100,000,000	100,000,000
• [] · · · · · · · · · · · · · · · · · ·	* Protective fence for works	System)	1.00	000,000,000	ren Poli		000,000,000	300,000,000
4 1 1	* storage area, electricity & water supply	3/50em	1.00	300,000,000	1 T 1 T		300,000,000	300,000,000
	* Mechanics	1			1			-
4	Valve gate (10.5x7.0mm +TB	38	2,00					
1			T			1		

Vietnam

Code	interior income	neu	Volarve		Price		+ inch Vi	Amount
Nemas	YVGIN, ILEANS			Material	Labor	Machine shift	Total price	Arecuet
1	8-CingHrong Diam Bc=(2x10)m:		-		1.1.1	1	-	46,186,347,987
	* Site men		1				*	3•C
AA tittt	Site Cleanace	100 m2	536,00		175,008	1	202.921	119,485,766
AA 12111	Cutting down trees in flat ground Drees >30cm	Vee	2,000,00		22,106	1	25.158	56,316,618
AA.13111	Digging thee stumps Dtree =00cm	bae	2 000 00		38.843	2	186,54	93,864,533
AA 13211	Digging bush of water coconut Dbush >=30cm	bee	600.00		97.635		124,387	110,013 #7
AE 1204	Duilt Trung Shrite	(TimB)	1 445 00		149,216	2	190.070	174 660,635
AB.11212	Soil Excavation for embankment - Soil Grade II	(TimB)	1.548 15		114,215	1 1	145.485	224 942 333
AB CELERA	Digging and transporting oceanic soil in a distance - 10m	100 = 3	16.41			870.482	901.900	14,785,403
· · · · · · · · · · · · · · · · · · ·	Bulldorer == 110CV, Soil Grade I				1	· · · · · ·	100	
AB 13312	Embankment in combination with service roads, K=0.9	fins	1.284.00		32,635		168,951	216,992,874
-	Using soil from the excavated uit for embankment	1 1						
AB 84112	Embankment in combination with service roads, compressor 9T IC=0.9	100 m3	38.53		200 538	798.448	1.482.685	57,125,308
AB 24122	Digging soil far enibadament by escavators =0.8m3	100/m3	42.38		113 741	838.404	1279:218	54.216.884
	Soil ende 🛙							
AB.41112	Transperting soil by dumm trucks	100/m3	22.38			1.198.557	1 807 392	88 151 512
1	Distance = 300m, muck of, Soil grade II							-
AB:13312	manual embandment of service roads K=0.9	11/12	425.00		132,638		106.951	72,310,968
	Using soil from the excavated put for embankment	1 1		1		1	N	•
AB.64112	Embankment of service roads, complessor 97 K=0.9	100 mB	12.64		820.630	799,448	1,482,635	13:037.027
AB 24122	Digging soil for embandment by excavators =0.8m3	500 mB	14.12		++9.741	538.404	1,279,218	19.067.604
(Geo) (er	Sail sande II	1						
AB.41112	Transporting soil by dump trucks	100 #3	14.12			1 198:557	1,807,992	22.711.273
	Distance = 300m truck ST, Soil grade II	-						
AE.13111	Manual embankment of site enund	1 mB	525 00		103.162	-	131,408	88/388 214
	Using soil from the encovated out for embankment				_	ALC: 10.00		
AB.62111	Embankment of site ground by compressor 9 Ton K=0.85	100 m3	15.75		138.221	492,038	834,888	13:149:135
AB 24122	Digging soil for embandment by excavators and EmS	100 mS	17.33		++9.741	838,404	1,279,213	22.162.365
	Soil grade II							
AB 41112	Transcorting soil by dump trucks	500.mS	17.33		1	1.196.557	1.607.992	27,858,458
19 M 00 -	Distance = 300m, much 51, Sail ande II	1						-
AB 11512	Digging dramage ditches B = 3m H = 1m Sul grade II	1:03	418.00		167,838		213.535	89,257,841
AD 21238	Embankment with segregate with thickness of 20 cm for service made	100 77	47.90	9 335,252	800 600	1,879,775	15.182.325	207 233 382
EB.11208	Installation of concrete times D500mm	100m	3.80	54 884 409	17.799.504	8,550,545	100.978.237	80,782,585
AS 27127	Land leveling as the previous condition of site ground distance <=50m	100.73	25.00			895 887	1 (09.53)	11 738 777
	Bulldozer = 110CV, Soil Grade II	1				1	-	
GTT	Material loading and unloading terminals	piece	1.00	25,000,000		1	31,844,758	31,844,758
AB 27212	Dizzing the diversion canal by estratutors = 0.8m3	500 mB	57.69		1,072,942	1.017.543	2,725,046	157,762,903

Code		Dart	Volume	_	Price		and the second	
NOTTRE	WORK TREAS	- C		Material	Labor	Machine shift	Total price	Amount
	Wildth = 10m Soil grade I					1		1.1
AE.4针相应	Transporting soil by dump trucks	Em 002	57.69	1	_	1,196,557	1,607,992	95,086,689
	Distance = 300m, truck 57, Soil grade II					-		
		-						- 1
1000	Pile driving for ground treatment	-	-			1		
	+ Pile casting yard:	* 112 T	-			1		- H.
AB 20100	Grating the pile casting yard by bulltioners #= 110CV, soll grade II	100 113	1:20	1		825,682	1,109,591	1,331,509
AK 41114	Mortas with grade 75 for noweling ground, 3 cm	1 mB	403.00	15.802	14,634	606	39,583	15,833 280
AF:11121	stone-lined concrete 4x6 M100, whith > 25cm	1 mã	20.00	\$40,627	217.376	40,664	1,402,321	28,046,421
11.1					p		~	
1.1.1.1.1	+ Scaffold:		-	1	8			
AB 82111	Soil embathanent for scaffold by compressor 9 T K=0 85	100 73	G.68	-	13 21	452,038	834,388	8.072,306
AB 24100	Digging soil for emborkment by excavators =0 and	100 m3	3.94		119,741	838.404	1.279.218	5,037,029
	Sail grade II				1. L		······	
AB.41112	Transparting soil by dump trucks	100 m3	3.94			1,198,587	1,807,392	8.331,828
	Distance = 100m, muck 5T, Sail grade II							
AB.66111	Sand entioankment for scaffold	Em 001	5,06	9,307,143	278,326	618,547	12,904,179	65,295,144
AD.21228	Aggregate of scaffold with thickness of 20cm	100 m2	138	9,335,252	800,600	1,879,775	15,182,325	111,741,914
AD.21222	Aggregate of scaffold with duckness of 10cm	100.402	7,36	4,667.628	214,009	697,599	7,679,277	56,519,480
-	- Fabrication	-						
AG:11115	Production of pre-casted concrete components	1.65	522.48	1,179,611	337:417	63,930	2.017.907	1.054.075.580
COPERATOR -	piles column constrate martar with crushed stange 1x1 M300	-		All of the state				
AG 13121	Pile reinforcement	tar	193 62	17 399 809	1,581 746	375,895	24,857,321	3 200 947 605
AG 31121	Fabrication, erection and first antling of tills formwork	100 m2	32.98	834,723	5,298,871		7.800.175	257 227 473
AL 13157	Production of pile splices	ton	36,57	18,305,814	5,698,785	1.024.542	31,951,083	1,168,451,109
AL64151	Erection of pile splices	ton	38.57	411,280	1,708.174	279.828	3,175,142	116.114.985
A1,11131	Production of driver pile of steel profiles	ton	2.40	19,070,916	2,044,418	1,695,358	29,174,810	70,019,543
-	- Disidiana	-						140
AG 1114 P	Dils manchert	heating	840.00			359 789	418.197	141 585 095
AC 15/2014	Dilat Dile Driving on ground hammer (=157	100 m	2.00	-	1 893.267	12 498 235	19.110.608	85,129,652
Concertained	Sail made IT Dilad: Dam R=35g35cm (IT=1 5)	-30.00			1.4291220	10,300,000	ist's unione	
AC 15059	Drume reinforred nitmit piles on enund hammer (== ==	100.00	7.00	1	1 282 178	8 284 157	12 740 404	101 795 259
COC Manual	Soil state II. Pile Loden F=55x35cm	- reporter -			Lana, HE	39483-107	10,1 00,007	and conclose
AC. 15225	Driving Reinforced negative piles on ground, hammer =2.5T	(m 001	26.13	1	1,362,170	8,284,157	12,740,404	332,906,757
	Soil grate IL Pile L-04m F=35c35cm	1	1 1.4		1			
AC. 15255**	Driving teinforced batter riles on ground, hummer =1 11	100 m	5.84		1.514.614	9,940,983	15,288,485	96,227,054

Code	Una think	UAL	Volume	-	Price	-	-	Emotet
Notikis	Wom Letts			Material	Labor	Machine thift	Total price	Anicant
	Soil grade IL Pile L. 24m F=55x35cm (K=1.2)		1					
AG: 1522.3**	Driving reinforced mentive piles on ground, havener =1.5T	(m 001	1,44		1.325.207	5,696,365	13,377,424	19:283.491
	Soil grade II. Pile L-O4m P=35g35cm (K=1.05)		_					
AC.29110	Dismantime driving oiles	100 m	1.44		572,417	4,685,903	7,039,782	10,137,280
AA 21241	Pile head breaking	1 m3	6.31		1.098.414	-	1,399,150	6,828,834
GTT	using iniliaozer 180 cv	titite	60:00			888,397	1,193,871	71,632,275
		-					× 1	-
4	*Foundation pit excavation;	· · · · ·		· · · · · · · · · · · ·	1	the second secon	in sector	
AB 22122	Grading of service roads for foundation pit and storage yard.	100 mS	13.20			825,882	1,109,591	14,646,602
1.00	L =50m, bulldozer =110cv, Soil grade II	1 march 1				1	e :	
AD.21228	Embankment by aggregate for service road with the thickness of 20 cm	500 m2	42.50	9,335,252	800,600	1,879,775	15,182,325	645,246,855
E1166 BA	Soil Embaniment of service roads K=0.81	100 #3	8.94	9,307,143	278,336	911,370	13,432,074	130,082,738
AE 25412	Soil from foundation encavation is duriped directly on marks, soil grade 1	100.m3	57 83		261.557	980,309	1.655.021	93,974,945
AB 28111	Foundation exception on the weak and soft soft	100 m3	167 97		1.934,279	1 709 850	4,781,378	799,768,358
1	by two escavators						~	
AE 1133E	Manual foundation excavation with the width > 3m	1 m3	4,851,00	-	147.374		157.723	910,644,597
	Depth > 3m , Soil grade II							
AB:29121	Soil taken on trucks by excavator =0.0m3	film 1001	+6,51		92,109	705,025	1,064.774	51,662,163
AB.41111	Transporting soil by dump trucks	500 mB	274,31			956,871	1,285,621	352,868,781
	Distance = 300m, truck ST, Soil grade I				-			
AB.11111	Excavating thick clodge, transport in 30 m	1.m3	4 484 00		173,164		220,575	969,066,638
AB.11121	Transporting in 70 m more	1.m0	4 484 00		19,000		22,998	103,114,599
AB.34110	Grading the soil in the dumping area by a bulldener 110 VN	100m2	319 15			198,338	266 334	95 084, 197
AE 24122	Digging for removal of service road & scaffold by excavator =	100 = 3	25 09		119,741	838 404	1,279,213	32,085,454
	0.8mi3, Soil gaide II	1.17.1.11						
AB.41112	Transporting soil by dump trucks	100 mS	25,09			1,196,557	1,607.992	40,344,511
	Distance = 300m, track ST. Soil grade II							
AB.11512	Digging drainage ditch at the bottom B = 5m H = 1m, soil grade E	i≊m≊	260,00		167.638		219,555	55,519,107
AK 90110	Construct a stone layer 2x4 as a buffer for the drainage ditches	Emil	260,00	572,444	348,499		1,134,874	295,067,367
AL 18122	Spreading geotextile fabric fabric	100 m2	9.15	5,350,688	215 889		4,542,818	41,588,787
GTT	Funnping water into foundation pit 10CV	fiste	200.00			184,109	247.315	49,482,932
AC.11122	Driving sheeting piles with Lpile = 4, for, Sull grade II	100 m	135 00	570,840	561, 190		1,441,931	194,860,888
AB 11211	Manually digging graded soil - Soil Grade I	1m3	4 000 00		82,898		105,594	422,377,155
AE 11911	Mamially mansporting soil in 300 m, Soil Grade I	Emil	4,000.00		171:322	1	248,228	872,912,209
ABIIISHIZ	Soil re-embankment due to erosion E = 0.9	Emil	4 000,00		21,425		157,218	628,872,324
A5 24422	Digging soil for embankment by excitators =0.1m3	500 mB	44.00		119,741	538,404	1,279,218	56,285,372
	Soil grade II						· · · · · · · ·	
AE 41112	Transparting soil by dump muchs	100 43	44 60			1 198 557	1,807,982	70,751,884

Cotte	4.4400	Ueil	Voiwree		Price	1.1.1	Same	Aranasi
Nertes	wom tens			Material	Laber	Machine shift	I otal price	Arecest
-	Distance = 300m; mach 57,5aŭ grade 1	1 1	1	-		1		2
1								
1 mar 1	*Coffering at the downstream & upstream.		· · · · · · · · · ·				1	2
4	+Preparation	1.00	· · · · · · · · · · · · · · · · · · ·		· · · · · · ·	1	164.	
AB 22122	Grading the demarcation of the soil taken yard.	100 mS	10.49			625,682	1,109.591	11.639,611
1.1.1.1	L=50m_bulldozer =110cv, Soil grade II				A	5	1.	
AD,2122B	Embankment with aggregate with thickness of 20 cm for dematcation	100 m2	13.10	9,335,252	003.005	1,879,775	15,182,325	136 388 401
1 1 1	-Embankment of cofferdam						251	
AB:63111	Embankment of cofferdam by compressors 9T. dv=1 fotuni	100 m3	268-87		272,641	549 137	1.085.313	291,807,988
· · · · · · ·	sul taken from the soil ground							-
AB 24122	Dirging soil for embankment by excavators and find	100/m3	295 78		119,741	838 404	1278218	378,338,198
	Soil gade II							
A5,41112	Transporting soil by dimp trucks	Em 008	295.78			1,196,557	1,607,992	475,574,798
	Distance = 300m, truck 57,5oil grade II	1						
AB.63111	Embankment of cofferdam by compressors 9T, dt =1.650 m3	100 mB	44,53		272,841	549.487	1,085,313	48,329,968
	soil taken from diversion cannel							-
11185.BA	Sand endvaulament for ann-subvidence	100 m3	Z:00	9,307,143	276 326	518 547	12,904,179	25,808,357
AD.21228	Embankment with aggregate with thickness of 10 cm met flop	100 m2	7 80	9,335,252	800 800	1,879,775	15,782,325	118,422,137
AB 81212	Damaging cofferdam by excavator bucket 1.6m	100ml	206.94		322,803	2711.684	4,065,278	847.309.394
			-		-		× 1	
							~ ~	
1	+Since connecting path:							-
ABICTICS	Digging and mansporting occursic soil in a distance of the	100 13	13.50			670.485	901,000	12 165,494
	Bulldozer = 110CV, Soil Grade I	1				1	10. (m)	
AB:64112	Embankment for road bases by compressor: 9T K=0.9	100 m3	100.00		320:530	799.448	1.482,655	148.283,468
	soil taken from the storage vard	1						-
AB 24122	Dizzunz soil for embankment by excavators =0 2m3	100 mS	110.00		+19,741	838.404	1,279,213	140,715,429
	Soil grade II							
AE 41412	Transporting soil by dumn trucks	100/m3	110.00			1,910,469	2,667,381	332 411 391
C 1 - T	Distance =1000m.runf: 5T.Soil grade II						-	-
AD.21238	Embankment with aggregate with thickness of 30 cm	100-12	37.50	9,335,262	300 E00	1.979 775	15,122,325	589,837,199
	Santa conditivitier	-						
45 11 205	Concrete of hottom slaht with store 1= 2 M300 Pr 250cm	1.02	457.04	1 310 540	267 009	40.957	2 186 550	1001 200 840
45 15445	Concrete of online mark: Thickness > 35cm	1.02	344.00	1359 700	700 994	08,050	2,100,000	305 080 713
CV	Unight of 16 m. concerns more with stars 183 M204	- mai	279,00	(1990,100	700.001	90,000	2,004,000	App 366/175
AF 19145	Coordinate of contractions and and a stone 1.42 MISOU	1.62	180.33	1 350 700	798 (81)	08,059	1.964 6211	104 080 081
10 12112	Unisity of 16 m. concrete mostly main data in 1 M200	- 110	199,25	1/202100	1,000,000 1	20,9691	12,007,0008	

Code	Uter Itere	916	Volance		Price	1	THEFT	Amount
Nemes	WOR DEEKs	-		Material	Labor	Maclane thift	Total ance	Media
AF.12145	Stune commete 1 x1 M300 for energy dissipaters toward the sen	1#8	367 39	1,358,700	788.861	98,068	2,884,630	1,023,790,120
AF.12145	Stane course I to M300 for energy discipaters toward the padity fields	1 m3	360.82	1.358,700	788 861	98,958	2,884,830	1 033 845 801
AF 12915	Concrete with stone 1x1 M300 for transport bridges	163	347.21	1,197,160	710.974	98,068	2,558,650	866 735 975
AF 12915	Concrete with stone In2 M300 for transport bridges	1 mã	32,00	1,034,028	710.974	96.058	2,351,852	75,259,250
AF 12225	Concrete for pulling system of rock valves 1x2 MB00	1 mã	150,30	1,345,379	962,610	96.058	3,068.982	461,268.057
AF 12225	Concrete for pulling system of rock valves 1x2 M200	1 mã	14,00	1,192,245	962.610	96.058	2,861,184	40,056,580
AF 11245	Stone concrete 1x2 of backyard M200	1 mã	514.10	1,034,028	302,118	40.857	1,758,871	903.207.141
AF.11213	Stone concrete 1 12 of transition section M200	THE	117 30	1,034,026	302.116	40,857	1,786,871	206,080,913
AF.19813	stone concrete 1a2 thm bit mit M200	Tmg	650 62	1,034,026	302,565	58 118	2,162.778	1,407,145,159
AF.11212	Contrete of stone slab 1x2 M150	TmS	98 VD	950,508	302.116	40,857	1,860,484	161,912,483
AF.11121	Crushed stone contrare 4%6 lining, B =250cm	TeS	213.40	840,627	217,376	40,684	1,402,321	299,265,311
AK.41124	Linning mortan grade M75 with thickness of 3 cm	1 mE	3.095,33	22,523	22,811	308	58,323	160,529,028
AFSEIII	Different types of metal formwork	100m2	17.60	5,716,264	8,137,921	511.011	19,465,427	1,617,270,870
AF.61522	Fabrication of different reinforcement	100	312,85	17,399,809	2,078,999	397.291	25,345,802	7.929.434.025
AL 41410	fabrication of couplines by PVC plates	1 m	130.00	292,821	473 444		976.080	126,887,807
AL 25112	Erection of rubber bridge beams	pere	40.00	578,455	753.208	10	1,898,258	87,850,251
AL 18122	Spreading geotectale fabric fabric on land	100 172	99.23	5,350,688	215.689		4,542,318	450,783,835
035.3	Erection of mone gamons (purchased gamons)	Em	1.021.00	489,789	323.233		1,036,620	1,057,368,224
GTT1	Gabian wire mesh	102	9 022 00	45,000			57,321	517,148,138
AE 11114	Ashlar M100	1 63	21.40	875,198	381,449		1,600,708	34,255,102
AK.98110	Making sand filter beds	100 m3	2,35	24,316,842	1,081,354	1,078,199	33,600,913	79,432,145
4K.98131	Making filter beds for crushed-stonel v2	100 m3	-4,70	52,749,075	1,584.267	1,211,618	70,837.518	332,996, 327
AC.11122	Driving sheeting piles with Lpile = 4,5m, Soil grade II	100 m	1.842,30	570,810	561,190		1,441,951	2,656,469,060
AD.21220	Construction of road surface with aggregate d=20cm	100 m2	9,00	9,335,252	800.600	1,879,775	15,182.325	136,640,929
E1156.8A	Sand embankment for road bases by compressors 97 E=0.95	100 m3	34.50	9,307,143	278 326	911,370	13,432,074	483,408,541
AB.84112	Embankment for road bases by compressors 9T K=0.3	100 m31	33 30		320.538	799.448	1,482,685	49,371,730
AB.24132	Digging soil for embankment by excavators =1.25m3	100 m3	36.63		119.745	863 949	1,300,104	47,622,797
	Soil emide II	10.000				the second second		- Q.
AB,4112	Transparing soil by dump mucks	100 m3	36.63			1,028,736	1,379,778	50,541,251
1	Distance = 300mmuch 7T, Soil grade II	1		100		1	-6	
	* Wing wall:	1					· · · · · · · · · · · · · · · · · · ·	1.00
AB,66143	Sand embankment by Vibratory Rammers K=0.95	100 m3	7.50	8,307,143	1882,400	699.439	13,919,251	104,394,609
AB,68113	Sand entbankment by commentors 9T K=0.95	100 m3	17,50	9,307,143	276,325	911,370	13,432,074	235,064,299
AB.85190	Soil entranianent for wing-wall by vibratory rammers E=0.55	100 93	22,50		2,190,753	1,420,053	4,898,397	105,725,183
AB:84113	Soil enhaniment for wing-wall by compressor 97 K=0.95	1001173	52.50		320 538	1,118,227	1,912,389	100,399,381
AB.24121	Digging soil for embankment by excavators =0 8m5	1001173	82,50		92,109	705.025	1 064.774	87,843,815
1	Soil grade D							
ABATT	Transporting soil by dump trucks	100.m3	92,50			986,671	1/285,821	106,063,758

Code		thet	Votane	1	Price		Guilden	- Britster
Nomis	Werk Iterus			Material	Labor	Mashine shift	Total price	Amount
	Distance = 300m, track 57, Soil grade I	1 1	1		· · · · ·	1	0	
-					1			×
	* Sizus of waterway transport	3 (5/8/1	1.00			1	100,000,000	100,000,000
-	* Protective fence for works	System.	1 00				300,000,000	300,000,000
1	* sonige use electricity & water supply	Dystem.	1.00		1		900,000,000	300,000,000
	* Mechanics						1000	
	Value gme (10,5%6,5)m	21	2,00					
	9. Onen thrice Br-OvT Shm /01 thrical:	+ +					-	42 116 526 171
	f Site man	+ +						\$2,129,209jar.1
24 11111	Site Clatance	100-7	593.00		175 006		-070-2016	115 010 097
24 17414	Cutting dam tracs in for ground Dirac 2 Very	line.	2,000,00		22.106		26.159	
AA 92844	Distance from the product of the sound	los	2,000,00		28 043		48.021	02.024 522
AA (254)	Distance but of mater second. Thus a site	Uge .	800.00		07 835		10.307	33,001,003
48 42244	Dight Tring Shina	Emb.	1,445,00		120,218	-	190.070	274 850 835
45 14040	Sail Excatation for ambaniment, Sail Grade T	1 mm	1 548 15		144.345	-	1.55, 255	774 647 333
45 00404	Display and managing angalic call in a distance of \$0m	100 m3	18.45		1175-114	870 487	000.000	LA 705 4/10
NG 44 (4)	Bulldaser = 110CV Sail Grain L	100.10	10,41			010.702	24-1004	1711 991 708
AB 13312	Embackment in combination with service made E=0.0	tim8	1,794,00		137 136		168 951	718 932 874
	Using soil from the spicityited pit for embankment							
TH145 RA	Embankment in combination with service roads, commessar 27 1(=) 0	100 =3	38 63		200 508	799-449	1.487.635	57 125 478
AR 74175	Distance and for eminantment by exchanges and SmS	100.03	42.38	-	119 745	838 404	1 179 713	54 116 894
	Soil grade II	1.00 .00			1.000.00			
AB 41712	Transcoming soil by dump mucks	100 m3	42.38		-	1,196,557	1.607.992	68 15* 512
	Distance = 300m truck ST Soil grade I	1					0.4	
AE 13312	manual embankment of service roads K=0.9	1 mô	425.00		132,638		166 954	72'340 968
	Using soil from the excavated pit for embandment		1					
AB.84112	Embankment of service roads, compressor 9T K=0.0	1001173	12.84		320 538	799.448	1.482.865	19:037.027
AB 24122	Digging soil for embalament by excovators a=0.5m5	100=73	14.12		119,741	838.404	1.279.213	15,067,604
	Soil grade II							
AB.41112	Transparting soil by dump trucks	100 073	94.12			1 198 557	1.607.992	12,731,275
	Distance = 300m, track ST, Soil gade II		-				~ ~ 1	5K)
AB.13111	Manual embandment of site ground	1 mð.	525.00		(03.162		131,408	68,988,214
1	Using soil from the excavated put for embankment	1					-	54 C
AB,82111	Emborikment of site ground by compressor 9 Ton E=0.95	100.m3	15.75	-	138,221	492,036	834,858	13,149,135
AB 2412	Digging soil for endomkment by excavators (=1,6m5	100 m3	17.83		119.741	838.404	1,279,213	22, VBC 385
	Soil graide II	-						
AB.41ME	Transporting soil by doma turchs	100 m3	17.39		1	1,198,557	1,607,390	17 968 458

Code	Wedd House	Unit	Valerse		Prite		Tetaladar	Barriet
Homas	AAAAA			Material	Labor	Mathine shift	i stal price	Amount
1	Distance = 300m, muck 5T, 5oil grade II	1.1						
AB. #1512	Diggung drainage ditches B ≃5m, H ≔lm, Soil grade II	tm5	#15,00	1	167.635		273,535	39,257,641
AD,21238	Embankment with aggregate with thickness of 20 cm for service roads	100 m2	47.90	9,335,252	600,600	+,879,775	5,182,325	727,233,382
88.11208	Installation of concrete pipes 2500mm	100m	0.80	54,584,409	17,798,591	8.550.545	100,978,232	HI 782 565
AE 22122	Land levelling as the previous condition of site ground, distance =10m	100.45	25.00			825 882	1,109,591	27 739.777
	Bulldover = 110CV, Soil Grade II					· · · · · · ·		×
GTT	Material loading and unloading terminals.	piece	1.00	25,000,000			31,844,758	31,844,758
AB 27212	Digging the diversion canal by excavators = 0.1003	100 m5	57.89		N072.143	1,011.543	2,725,046	157.752.903
	Width ≈10m Son grade I							*
AB.41112	Transporting soil by diamp tracks	100 m5	57.89			1,196.557	+,607.992	90,065,639
	Distance = 300m, truck 5T, 5où graite E			1				
					1 3			*
	Pile driving for ground treatment						~	~
	+ Pile casting yard	1.00				1		
AB 27(25	Grading the pile tasting yard by buildoners = 110CV soil grade II	100 71	1.20	- Torrenda	-	\$25,662	1.1(2.59)	1.331.509
AK:41114	Mortar with grade 75 for troweling ground, 1 cm	1 m2_	±00.00	15.602	15,636	605	39,583	15.811,250
AF:11121	stong-lined contrast 4x5 M100, width > 15cm	ins	20.00	840,627	211,376	40,664	1,402.321	28,046.424
								+
4	+ Scaffold:				1		2 Br	*
A9.62111	Soil embankment for scaffold by compressor 9 T K=0.25	100 ms	3.68		136,321	492,036	834,866	3,072,306
AE 54122	Digging soil for embankment by excivators =0.8m3	100 ms	3.54		119,741	\$38,404	1,279,213	5 017 029
	Soll grade II							
AE-41112	Transporting soil by damp works	100 ms	3.94			1, 196,657	1,807.992	8,821,635
Terret	Distance = 300m, much 3T,Sof, gode E			in the second				
AB.66111	Sand embaukment for scaffold	100 mS	5.06	9,307,142	276,328	518,547	12,904,179	85,295,144
AD 21229	Aggregate of scaffold with duckness of 20cm	100 m2	7.38	9,335,252	800,600	+,879.775	15,102.325	111,741,914
AD 21323	Aggregate of scatfold with duckness of 10cm	100 m2	7.38	4,887,625	414,089	897.599	7.879.277	58,519,490
_	190-2						-	
ACTUNE	+ Fabrication	1.60	no 205	1.070 645	227 117	P3 (700	7 (97 (97	1 752 001 001
Acting	pilor column contrain motifs with mutual cases 1x1 M200	1.00	023,03	1.03400	224,114	84.250	2.00.30	1.440.54
10.02121	pues, commerce and an with cristen some 142 MO00	desire.	107 00	17-200-000	1 001 740	375 000	74 457 028	2 201 545 548
AG 13121	Phe territorienen	100 -0	137.20	17.399 509	5 000.024	A12 680	7 000 175	2,304,240,212
AG 31121	Protocolour election and distinguing of pue furnishous	100 110	30.00	10 005 024	1100001	1004201	7,800.173	2/5,012 914
AL PAID /	Production of pue spaces	100	43.01	10,000,019	1/202-171	1024.042	31,907,003	1,350,304,799
AL INVITE	Election of pine spines	- Mari	43.07	+0.020.046	1,160,174	1.605-150	3,110,142	70 040 515
Marini 1	kionnimon or ontre: bus of steer brounes	100	±/40	19.0/0.910	2,049,410	1,090,335	29.774.810	10,019,043
	+ Dale driving							
1.	- File anying		d			M		

Ċnde	in an a	Valt	Valure	1	Price	24	Testan	Accurat
Normas	Were (1945	112		Material	Labor	Machine shift	Fotal price	ATHUTEL
AG.41141/	91e transport	section	134.00			109 769	416.222	55 781 810
AC 15223/	Pilot Pile Driving on ground, latenmer =0.5T	100 m	2.89		1,893(267	12,438,255	19,110,806	55 224 682
	Soil grade IL Pile L-04m F=35v35cm (E=15)			-			-	
AC.15223	Driving reinforced plumb piles on ground, hammer =3.5T	100 m	7.00		1,262,178	8.284.157	12,740,404	101.795.826
	Soil ande II. Pile I.>24m F=35x35cm						-	~
AC.15223	Driving Reinforced metative piles on ground, hammer =2.5T	100 m	28.41	1	1,262,178	8.284.157	12,740,404	832.906.757
	Soil grade II Pile L=34m F=35x35cm			1			-	
AC.15223/*	Driving reinforced batter piles on ground, hammer >2 5T	maph	5.64	1	1,514,614	9.940.968	15,288,485	88,227.054
	Soil grade E. Pile L>34m F=35x35cm (K=1.2)						-	
AC ISSS	Driving reinforced negative piles on ground hammer =157	100 /m	1.44		1,325,287	8.698,385	13.377.424	19.283.491
	Soil grade II Pile L=34m F=35x35cm (N=1.05)	-						
AC.23110	Dismantling driving piles	100.00	1.44		572,437	4.895.928	7.039.782	10.137.288
AA 11241	Pile head breaking	im5	8.21		1/098.414		1.399.150	8.828.634
GTT	using buildozer 180 cv	shift	30.06			888.397	1.193.871	71.632.275.
		-						
	*Foundation of excattation:			1			-	- 87
AB 22122	Grading of service roads for foundation pit and storage varia	100 m3.	11.00			825,882	1,109,591	12 38 302
	L==3lim, bulkdoper ==110cv, Sml grade II						-	×1
AD 21228	Endowkment by negregate for service mad with the thickness of 30 cm	100 m2	38.45	8,335,251	603,600	1.879.775	15.182.325	553.595.757
AE.66113	Soil Embankment of service muds E=0.95	100 m2	7,60	9,307,141	278 338	911,870	13,432,074	104,770,174
AB.25412	Soil from foundation estraviation is dumped directly on macks, soil grade	100 mE	46.81		261.957	960.929	1,625,021	78.067.217
A9.26111	Foundation excavation on the weak and soft soil	100 mE	143.19	1	1,954,279	1,709.650	4,751,378	601.781.456
	by two excavators			1			-	~
AB.11382	Manual foundation excavation with the width > 3m	Emf.	3,234,00	1	147,374	1	107.723	365,320,705
	Depth - Sup. Soil stade II			1			-	*
AE 54121	Soil taken on trucks by encounter = 0.8m3	100 -12	32.34		92,109	705 025	1.064.774	34,424,775
AE 41111	Transporting soil by dimps muchs	100 m2	222.34			1236.671	1,285.621	285.845,042
	Distance = 300m, truck 3T Soll grade I						1	*
AE 11111	Excavating thick sludge, transport in 30 m	1/172	4 484.00		173,584		220.575	989,056,636
AB.11121	Transporting in 70 m more	it mS	4.484.00	1	19,053		22.996	103 114 598
AB 54110	Grading the soil in the dumping area by a bulldozer 110 VN	100m3	267.18			198.895	206.554	71,212,446
AB 24122	Digging for removal of service road & scaffold by excavator =	100 m5	23.20		119,745	838,404	1.279.213	29,792,871
	0 BmS, Soil grade H							
AB.41112	Transporting soil by dump gucks	100 m5	23.20			1. 96 557	1.807.992	37,450,126
	Distance <= 300m, muck ST Soll grade II			1			-	*
AE. 11512	Disging drainage dutch at the bottom B/=3m H<=1m and grade I	1:03	254 00		157,638		213 585	54 237 897
AK 55110	Construct a store layer 204 as a huffer for the dramage dirches	1/73	254.00	572,444	318,499		1.224.674	298 258 111
AL 18122	Spreading geotewile fabric fabric	100 m2	8.93	5.350,888	215,689		4,542,816	40,567,347

Notine Notine Material Lister Material Lister Nachine diff 61T Pumping wates into foundation pt 20CV shift 200.00 184.109 247.44 AG.11122 Driving sheeting piles with Liple = 4,5m. Soil grade II 100 m 102.50 570.810 564.1091 1.444.03 AR.11214 Manally faiging groded soil - Soil Grade I 1 m0 3.000.00 107.822 218.52 AR.11914 Mamaly faiging groded soil - Soil Grade I 1 m0 3.000.00 107.432 218.52 AR.1112 Sail membrakment due to excision K = 0.9 1 m0 3.000.00 102.432 167.21 AR.24112 Diagging soil fundition pt 20.00, max (=0.07) 1 m0 3.000.00 103.425 167.21 AR.4112 Diagging soil fundition pt 20.00, max (=0.07) 1 m0 3.000.00 109.741 838.404 1.279.21 AR.4112 Transporting soil by dimp trucks 100.m3 33.00 1.196.557 1.607.99 Distance = 300m, truck ST.50il grade II 0 - - - -	Arvount
GTT Pumping water into foundation pet 20CV shift 200 00 188.109 247.44 AG, 1122 Driving plate with Lple = 4,5m, Soil grade II 100 m 112.50 570.810 584.109 1.444.63 AG, 1124 Manually diging a coded soil - Soil Cende I 1.m3 3.000 00 62.988 105.56 AE 1191M Manually diging a coded soil - Soil Cende I 1.m3 3.000 00 103.422 2.08.22 AE 3119 Manually diging a coded soil - Soil Cende I 1.m3 3.000 00 103.425 1.95.21 AE 3112 Sail me-embaukment by excavaus (=0.0m3 100.m3 33.00 119.741 838.404 1.279.21 Sail grade II	17 200 100
AC. **1122 Driving sheeting piles with Lpile = 4.5m. Soil grade II 100 m 112.50 570.810 584.190 1.444.90 AE. *121*/ Mamually draging eroded soil -Soil Cenate I 1.m3 3.00000 82.988 106.59 AE. *101*/ Mamually draging eroded soil -Soil Cenate I 1.m3 3.00000 177.922 0.98.20 AE. *101*/ Mamually draging and in solo m. Soil Cenate I 1.m3 3.00000 177.922 0.98.20 AE. *101*/ Soil grade II 1.m3 3.00000 179.22 0.98.20 157.21 AE. *112 Digging soil fin embonkment by excavarias <=0.6m3	99,902,904
AE 11214 Manually digging stoled soil - Soil Center I 1, m5 3,000,00 82,988 106,559 AE 11914 Manually mansporting soil in 300 m, Soil Center I 1, m5 3,000,00 173,822 198,27 AE 1310 Soil re-embankment due to ension K = 0.9 1, m6 5,000,00 123,425 197,827 AE 24122 Digging soil fir embankment by excavares (=0.6m) 100, m3 33,00 119,744 838,404 1,279,21 Sail gande II	162,217,213
AB 1191/* Manually transporting soil in 300 m, Sail Geade I 1 m0 £000100 177 322 218.27 AB 1310 Sail ne-embankment due to encitone R = 0.9 1 m0 £000100 121.425 157.21 AB 20102 Digging soil für embankment by excavates =0.8m3 100 m3 33.00 119.741 838.404 1.279.21 Sail gande II	316.792.988
AE 13112 Sail z=embnalment due to econoo K = 0.9 1.m0 \$400000 112(425 157.21 AE 24122 Digging soil for embnakment by excavarias ==0.5m3 100 m3 33000 119,741 838.604 1.279.21 Sail grade II	654,684,157
AB 24122 Digging soil fur embonitment by excitones (=0.6m3) 100 m3 33 00 113,741 838 404 1.219.21 Sail gade II	471,664,243
Sail grade II All Sail grade II All Sail grade II <	42,214,000
AE 4/112 Transporting soil by dump trucks 100 m3 33.00 1.196.657 1.607.39 Distance (==300m truck \$T.50il grade I	
Distance = 300m, track ST, Soil grade II	55,083,728
Coffician at the downstream & upstream	
Contention Contention Contention Contention Contention → Steparation 100 m3 9.40 805.882 1.00.859 L (→ 500m, buildener → 110cx, Soli grade II	-
	-
AB_2112 CarAnna me canadic control for the suit than yard 100 m3 340 cut State Cut State <thcut state<="" th=""> <thcut state<="" th=""> <t< td=""><td>10,100,100</td></t<></thcut></thcut>	10,100,100
L = 500m, cuitanizar = 1000, Storgine II 1000 m2 1175 9,988,182 800 and 1.979 775 15,482,32 AD.21238 Embankment with aggregate with thickness of 30 cm file demarcation 1000 m2 11.75 9,988,182 800 and 1.979 775 15,482,32 Ab.563111 Embankment with aggregate with thickness of 30 cm file demarcation 1000 m3 241.07 277,641 549,483 1.055,31 Ab.563111 Embankment with sequences of 97, do =1.650 m3 1000 m3 245.07 277,641 549,483 1.055,31 Soli gaile JI Ab.2120 Digging soil for embonkment by excitators =0,833 1000 m3 285,18 119,741 508,404 1.279,21 Soli gaile JI Filestora 100 m3 205,18 119,741 508,404 1.279,21 Distance = 300m, truck ST, Soil grade II 100 m3 205,18 119,741 549,187 1,985,37 Soil grade JI Embankment of anth-subpitescer ST, and production cannel 100 m3 244 f53 277,641 549,187 1,985,37 Soil grade Toranh-subpitesce S10 1000 m3 2.00 9,397,1	10,452,150
AD21203 Embankment with aggregate with fluctures of 20 mm for Altariantinois 100 m2 11 70 9.386_252 500 m0 197.75 15.462.32 Embankment of cofferdam	170 000 000
Ab563111 Embonkment of coffie dam by compressors 9T. dv =1 6/s m3 100 m3 241.07 272.641 549.487 1.085.31 soil taken from the soil ground	1/6,362,302
Soil taken from the soil ground	261,636,297
AE 24122 Digging soil for emboukment by excitators ==0,8m3 100 m3 285,12 119,741 888,404 1,279,21 Soil grade II	-
Soil graie II 100 m3 D05 18 1 198 557 1,807 39 Distance = 300 m, rack 5T, Sail grade II 100 m3 005 18 1 198 557 1,807 39 Distance = 300 m, rack 5T, Sail grade II 100 m3 244 53 277,644 549 187 1,808 31 M8 83111 Embankment of unfire dum by sumpressons 9T, dr = 1 65 tim3 100 m3 44 53 277,644 549 187 1,988 31 M8 68111 Sand embankment for anii-subsidence 100 m3 2.00 9:397,143 278,325 518,547 12.904 17 A0,21221 Embankment with arggregate with thickness of 20 rm mot dige 100 m2 7.80 9:385,252 800.600 1.879,775 15.182,32 AB 81212 Damaging tofferdam by encavatur bucklet 1.6m 100 m3 190 40 322,833 2,711,884 4,055 27	339,217,384
AE #1110 Transparting soil by dimmp trucks 100 m3 10	1
Distance = 300m, track 5T, Soil grade II	438,402,412
AB 83111 Emboultment of infliction by compresson 9T, dr >1 (550m3) 100 m3 44 63 272,641 549 137 1,085 31 sell taken from diversion cannel	
smll taken from diversion cannel - AB 66111 Sand exionAment for ani-subsidence 100 m3 2.00 9:307,143 276.326 518,547 12.904.17 AD 21221 Embodiment with aggregate with thickness of 20 cm not dig 100 m2 7.80 9:335,252 800.600 1.879.775 15.162.32 AB 31212 Damaging tofferdam by encavator bucket 1.5m 100 m3 19040 3:22.833 2.711.684 4.055.27	48,308,368
AB 56111 Sand embankment for anii-subsidence 100 m3 2.00 9:307.163 276.225 518.547 12.904.17 AD 21220 Embankment with aggregate with hickness of 20 ma not day 100 m2 7.80 9:335.252 800.600 1.879.775 15.168.32 AB 81212 Damaging tofferdam by estatustic bucklet 1.5m 100 m3 190.40 322.933 2.711.684 4.055.27	2.000
AD.21221 Embodiment with aggregate with duckness of 20 cm met days 100 m2 7.80 9.335,252 800.600 1.879.775 15.182.32 ASI 2122 Damaging cofferdiam by encavator bucklet 1.5m 100 m3 19040 322.833 2,711,684 4,055.27	25,808.357
AB.01212 Damaging tofferdam by encavatur bucker 1.5m 100m3 19040 322.833 2,711,664 4,055.27	119,422,197
	772,124,574
- Eluice connecting pair:	1
AE 22121 Digging and transporting organic soil is a distance ≈ 9m. 500 m3 13,50 670 462 907,00	12,163,494
52117 Delta (de tables de la companya de 1720 0 100 0 100 0 100 0 200 100 0 200 100 1	110.000.100
ACCENT: Employee and costs of antipersons of A-0/S 100mC 10000 20036 195 440 1462 (co	1+0,250,400
pmt.catch_tion_dir_strategy visu	840 245 450
MOLTUM particulation of the AVAILANCE (ALCO) 100/00 110/00 110/01 100/01 100/01 110/01 100/00	140,(13,423
2010 grante ta 2014 g	282 411 997
Distance 21000m that 27 Soil state II	

Colle	6.2000	Unil	Valurae		Price		Sec. 2	4
Nertes	Viori (Ieras			Material	Labor	Machine shift	i otal price	Arecent
AD CIZE -	Emitankment with aggregate with thickness of 30 cm.	100 m2	57 50	9.335,252	200.600	1,879,713	15 182 325	589, 337, 199
						1		
And the second	*Server construction				100 Aug 14			2
AF.11225	Concrete of bottom slabs with stone 1 #2 M300 B 250	i∋mã	388,25	1,310,542	362.908	40.357	2,186,580	800,8/6,889
AF 12145	Concrete of edge posts. Thickness > 45cm	inm≦ .	227.48	1,358,700	788.881	96,058	2,864,830	651 588 743
11.001	Height = 16 m, concrete mortar with stone 1,c2 M300	1.00	1		1		10 0EL	100000-0000-000
AF 22145	Concrete of centre piers. Thickness > 45cm	emā -	143,82	1,358,700	788.884	96,068	2,864,830	428,319,480
1	Height = 16 m, concrete month with stone 1x2 M300				in her		361	
AF.12145	Stone concrete 1x2 M300 for energy discipation toward the sea	1.66	338.23	1,358,700	785.861	96,05,8	1,884,830	882,984,909
AF 12145	Stone concrete 1x2 M300 for energy discipaters toward the paddy fields	1:48	309.38	1,358,700	798.861	98,05,8	1,884,830	886,2D1,941
AF (1915	Concrete with stone 1x2 M300 for transport hridges	1:46	349 79	1,197,160	710,974	98,058	2,558,650	895,339,871
AF (29.13	Concrete with stone 1x2 M200 for transport bridges	1 m2	32,00	1,054,028	710,974	96,053	2.367.852	75,259,250
AF. 12225	Concrete for pulling system of rock valves 1x2 M300	1 m3	119.90	1,345,379	962,610	96,053	3,068,982	364,902,009
AF 12009	Concrete for pulling system of rock valves 1x2 M200	Emil	12.00	1,182,235	962.610	96,058	2.861.184	34,334,211
AF #1243	Stone concrete 1x2 of backyard M200	1.m3	422.30	1,034,028	302,146	40.857	1,756.871	741,928,428
AF 11213	Stone concrete 1x2 of transition section M200	1.m2	05.06	1,034,028	302,116	40.857	1,756.871	106,466,354
AF 15813	stone concrete 1s2 thm lat mai M200	1 mO	581.77	1,034,028	602 565	58 113	2,162,778	1,258,238,049
AF 11212	Concrete of stone slab 1x2 M150	1.m3	96 10	350,508	302.118	40.857	1,880,484	181,912,483
AF 11121	Crushed stone concrete 456 Iming B =250cm	1.m0	173.50	540.627	217.376	40.684	1:402 321	243.302.701
AK ZHEZA	Lining mortar grade M75 with thickness of 3 (m)	-1m2-	2,988,67	22,123	22.811	803	58.323	167, 192, 510
AF 能性!	Different types of meral formwork	+00m2	75,94	5,716,284	8.237.921	511,011	18,461,427	1,401,352,381
AF:61522	Fabrication of different reinforcement	ton	276.81	17.399,809	2.078.999	397.25+	25,345,802	7.016.088.265
AL 41410	fabrication of couplings by PVC plates	-fm	61.00	292.821	473,444		976.060	59,539,683
AL 25112	Erection of rubber bridge beaming	282	40.00	578,465	753.206	1	1,896,268	67,650,251
AL 16120	Sureading geotextile fabric fabric on land	500 m2	88.54	3.350.688	245,689	-	4,542,815	402,220,991
035.3	Erection of stone galmons (purchased galmons)	nd l	904-00	489,789	323,233		1.035.620	936,200,860
GTT1	Gabian wire mesh	112	7,982,00	45,000			57,321	457,532,749
AE11114	Achlar M100	1.46	21.40	875,198	381,449		1,600,706	34,255,102
AK DRIVER XA	Making sand filter beds	100.76	2.62	24 318 842	1.081 354	1.078.199	33 800 913	88 277 844
AK.98101	Making filter beds for crushed-stonels.I	100.00	4.06	52,749,075	1.584_287	1,211,648	70,837,516	286,691,941
AC-11122	Driving sheeting piles with Lpile = 4.501 Soil grade II	(m 007	1,526,98	570,810	581,190		1,441,981	2,345,965,384
AD 21228	Construction of road surface with accretite d=00cm	100 m2	9.00	9,335,252	600,600	1.879.775	15,182 325	135,640,929
AE 68113	Sand entbankment for road bases by compressors 97 E=0.95	100 m3	34,50	9,307,143	278 275	Set 370	\$3,432.074	483,408 541
AR 64117	Embankment for toad bases by ramprestors OT K=0.0	100 mB	83.30	Carle of Firlds	320 EM	700 448	1,482,635	49,371,790
AE 74137	Distance soil for entlonkment by escavarors <=1.15m3	100 m3	36.63		119,741	868,949	1,300,104	47 802 797
	Sail erade II			-				
AR 21(97	Transporting call include marks	100	98.83			1,028,739	1 229 728	3551251
	Elistance E= 100m truck TT Soil graits II							

Come	Mari dian	Uell	Volume	Price	7.433.000			
Nome	Work Rests			Material	Labor	Machine shift	Lotal buce	Anount
1	* Wing wall	1 1	1					
AB/68143	Sand entbankment by Vibratory Rammers K=0.95	100 m3	6,00	9,307,143	882,400	899,439	13,919,281	39,515,687
AB.68113	Sand embankment by compressors 9T K=0.95	100 m3	14.00	9,307,143	278.126	911.370	13,432,074	188.049.031
AB 85130	Soil embankment for wing-wall by vibratory rammers &=0.99	100 m3	15.00		2,190,753	1,410,053	4,696,897	84,580,148
AB.84113	Soil embankment for wing-wall by compressor 97 K=0.95	100 m31	42.00		320 538	1,119,227	1,912,369	90,319,504
A8.24121	Digging soil for embankment by excavators =0.5nG	100 m31	46.20		92,109	705.025	1,084,774	49, 192, 538
1.00	Soil gmide D							
AB.41111	Transporting soil by dump tracks	100 m3	45.20			955,671	1,285,821	59,395,704
1 m	Distance = 300m, truck ST.Soil grade 1	-		10.00		10 mm	1.	
	and the second							
·	* Signs of waterway transport	a prestant	1,00	100,000,000			100,000,000	100,000,000
	* Protective fence far works	system.	1.00	300,000,000			500,000,000	300,000,000
	* storage area, electricity & water sugply	system	1.00	000,000,000			800,000,000	300,000,000
	* Mechanics							-
	Valve gate (10,5x6)m - Black steel	391	2.00					
	Valve gate (10.5x6)m - Stamless steel	ाल	2,00					
							-	
1	10- Open slutte Br=10m (01 slutte):	_						70,312,212,074
	1 Sole area							
AA.11111	Sife Clearance	100 m2	420.00		(75.006		222.921	93,628,908
AA.12111	Cutting down trees in flat ground Diree = 10cm	(rae	1.600.00		22,106		28 159	45,063,454
AA 13111	Digging tree stungs Dites =20cm	tes	1.600,00		36.843		46,93.1	75,069,227
AA 13211	Digging bush of wates coconiti Dbush = 50cm	tree	500,00		97.635		124.367	62, 163, 269
AB.19214	Dinh Trung Shute	1 mB	1.145,00		149.216		190,070	217,629,742
A5 11212	Soil Excavation for embankment - Soil Grade II	1 m3	1,225,15		114,215		145,485	175,241,503
A5.22121	Digging and transporting organic soil in a distance = 50m	100 m3	19,44			870,462	901,000	12,082,404
	Bulldozer 🖙 110CV, Soil Grade I							-
AB.13312	Embankment in combination with service roads, K=0.9	1.48	979.00		132.65		168 351	185,402,889
	Using soil from the excavated pit for embandment							
AB.84112	Embankment in combination with service roads, compressor #T E=0.5	100/73	.29.38		320 538	799.448	1.482,685	43,580,150
AB.24122	Digging soil for embanizment by excavators =0 Em3	100,m3	22.30		119.74%	838,404	1,279,243	41,312,483
	Soil grade II	0 0	1					
ABIAtt12	Transporting soil by dump trucks	100.m3	22.30			1,196.567	1,607,992	51,991,700
	Distance = 300m, truck 57, Soil grade I	1	1					× .
AB. 13312	manual empankment of service roads E=0.9	1 mã	325,00	-	(32,635		166.951	55,077,973
· · · · · · · · · · · · · · · · · · ·	Using soil from the excavated pit for embankment	1.32.1				1		
AB.84112	Embankment of service roads, compressor 9T R=0.9	100 13	9.79		200 538	799.443	1.482,835	14,514,992
AB 24422	Disging soil for embankment by excavange = 1.803	100 #3	10.77		119.741	838,404	1,279,213	13,775,845

Codia		Uali	Volume		Price		THE OF	100.00
Nemes	WOTE HERES			Material.	Labor	Machine shift	10(3) price	Amount
	Sail gmaie II	1				1		
AB.41112	Transporting soil by itimg muchs	100 m3	13/77			1,198,557	1,807,390	17,318,482
	Distance = 300m, muck ST, Soil grade II	1.000						1.00
AS 13111	Mamual embankment of site ground	1 mã	525.00		105 162	1	131,408	66,988,214
1.00	Using soil from the excavated put for embankment		and the second s	200		The second second		 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
AB:62111	Embankment of site ground by compressor 9 Ton R=0.85	100 m3	15.75		138.221	492,058	834,368	13.149.135
AS 24122	Digging soil for embankment by excavators =0.8m3	100 m9	17.33	1	119.741	838.404	1,279,213	22,162,365
	Soill grade II							
AB.41112	Transperving soil by dump works	100 m3	17 33			1,198,557	1,607 592	27 868 468
· · · · · · · · · · · · · · · · · · ·	Distance = 300m, muck 57, Sail grade II							-
AB. 11512	Digging draimage dirches B = 3m, H = 1m, Sml grade II	1 m3	318 00	mer andra a	187 (638		213 535	67,904,138
AD.21228	Embankment with aggregate with thickness of 20 cm for service roads	100 m2	35,50	9,335,252	800,600	1,879,775	15,182,325	554,154,873
88,11208	Installation of concrete pipes D500mm	100m	0.70	54,584,409	17.790.591	6,550,545	100;978,292	70,884,762
AS:22423	Land levelline as the previous condition of site ground, distance =50m	100 m3	20.00			825,682	1,109,591	22,191,822
	Bulldozer = 110CV, Soil Grade II							*
GTT	Material loading and unloading terminals	oiece	1.00	25.000.000			31,644,758	31,844,758
AB 27212	Digging the diversion canal by excavorants <= 0.8m3	100 m3	54.89		1.072.142	1,011,543	2,735,048	149,032,758
	Width == 10m. Soil grade II							
AB 41M2	Transporting soil by domin pucks	100 m31	54.69			1 198 557	1 807 992	87 941 085
	Distance = 300m, muck ST, Sail ende II.	1.1.1.1						
1							-	+
1	Pile driving for ground treatment						-	-
the second	- Pile casting vard?						-	
AS 22122	Grading the pile casting yard by bulldozers = 110CV, soil grade I	100 m3	1.20		1.000	605,682	1.109.591	1.331.509
AN ATTAC	Mortar with stade 15 for troweling stound 2 cm	1:02	400.00	15 802	14.634	608	30.583	15 833,040
AF 11121	stone-imed concrete 4x6 M100, width > 25cm	AmB.	20.00	840.627	217 378	40.884	1.400.301	198 D48 421
								-
1	= Scaffold:							
11175 BA	Soil embatikment for scaffold by commessor 9 T E=0.95	100:03	184		136 324	492 038	834 388	1 344 134
AB 74422	Disame soil for embankment by excatators =0.2m3	100.m0	1.77		+19,741	838 404	1,279,243	2 265,466
	Soil erade II				1191011	1		× 1
AE 41117	Transporting soil by during trucks	100.m3	1.77			1,196,557	1.607.997	2 547,763
resitive	Distance = 100m, truck ST Soil made T							
ARIBRIT	Sand entitankment for scaffold	100.m3	1.64	9 907.843	278.228	548 547	(2 QCA 179	20,775,729
AD.21239	A emerate of sciffold with thickness of 20cm.	100 172	3.00	9,835,250	600 600	1.879.775	18 182 325	48.897 087
AD SHEET	Aggregate of sciffold with thickness of 10cm	100 m2	3.00	4 867 608	414 (184	897.300	7679.577	34,797,872
	The second			-John John -	an collect			
	- Fahncahan:							

Code		ANG	Appaule	1	Price		20 C	
Norres	WORK IDENES	1000		Material	Labor	Montine shift	Intal price	Ament
AG 11115	Preduction of pre-casted concrete components	1 #8	208.66	1,179,011	10,10	IE1.930	2(87.907	417 020,609
	piles, column, concrete mostar with crushed stone 1x1 M300	· · · · · · · ·						
AG 13121	Pile reinforcement	loe .	51.66	17.399.809	1.581.748	375.895	24,657.971	1,273,828,192
AGSH21	Fabrication section and dismantling of pile formwolk	100 m2	11.81	834.723	5.288.874	1	7,800,175	92,113,377
AL 13151	Production of pile splices	ton	20.67	18,305,814	5,898,765	1.024.542	31,961,065	060,428,888
AL84151	Erection of nile solices	ton	20.67	±t1,280	1,786,174	279.828	3.175.142	d5.630,181
AJ.11131	Production of driver pile of stael profiles	ton	2.40	19,070,915	2,044.416	1.895.356	29,174,810	70,019,545
1. T.	+ Pile driving:							
AG:41141*	Pile ganspart	section	181.50	1		205 769	416,282	+2,1344.498
AC 16223*	Pilot Pile Diriving on ground, latenmer <=0.57	100 m	2.24		1,893,287	12.426.295	19,112,806	42,807,758
AC. 15223	Driving relifered plumb tiles on ground hammer =2.5T	100.m	6.20	*	1.282.178	8,284 157	12 740 404	00.127.141
	Soil stade II Pile IDém F=S5x35cm	Tasta	-	*	Tresserves	3165 3160		
AC. 15223	Driving Reinforced metative piles on ground hammer and 51	100.001	10.20	*	1.252.178	8.284.157	12,740.404	109.962.121
1011-12	Soli made II Pile L-D4m F=35x35cm	10010		*	Tre de l'une	3155 5160		1.000 00 00 0
AC. 15223**	Driving reinforted batter piles on ground; hammer ==2.5T	100 m	4.44	1	1,514,614	9,940,988	15_388 495	87 880, 873
1.5	Soil grade II. Pile L: D4m. F=35x35cm (N=1.3)	1			·		- 8	
AC ISSS	Driving reinforced negative piles on ground hammer #=1.57	100 /m	1.78		1,325,287	H 696 365	(3.377,454	11.434.391
	Soil grade II. Pile L: 14m F=35t35cm (N=1.05)	-	· · · · · ·					×
A0,23110	Dismantling driving piles	100 m	0.78	a - 11	572,437	4.895.928	7,039,7E2	5,491,030
AA.21241	Pile haad breaking	ins	# 20		1,098,414	Provide the start	389.150	6.002,352
GTT	using bulldozer 150 cv	shift:	50.00			888 397	+ 493.571	59,691,982
_	* Darm Batting wit antegration -						E.	+
AD POIDS	Coding of province and for four dation wit and domine word	100 -2	205.0			002.000	1 100 601	0.761 1/20
Marchee	Creating of Net View Costs for Administration of the Society of a	THM THE	2.99			023,092	1,109,201	5/117.442
02949-04	Evaluation of the second second with the thickness of them	100 -0	29.78	0.992 999	807 600	1.878 775	1210 101 31	E11 641 081
AD BRIES	Coll Contractions of convict math V=0.05	tim pur	7 00	0.587 9.47	000,000	046 870	10,102,020	104 770 174
AD 05480	Foil from foundation exception is dimended directly on trucks, and grade i	100 m5	20.55	9,2007,792	251.057	1060.000	1 825 021	10 656 024
A9 25111	Foundation excavation on the weak and soft soil	100 m5	137.88	*	1.034.070	1,709,650	4 751 378	855 548 274
	by taxe excatators	109 Ma	101100	*	1127-12-2	111041000		
AB. 11382	Manual foundation excavation with the width >3m	1m3-	2,772.00	*	147.374		107.723	520,368,341
	Depthi≈3an. Sail grade II	1000	Printer	*			-	
AB 34124	Soil taken on trucks by escavators ==0.8m3	£m 001	27.72		92,109	705 025	1.064.774	31.515 502
AE 41111	Transporting soil by dump mucks	8m 001	214 55	2		136.671	1.285 E21	278.007,157
	Distance = 300m, much 57,500 grade I	1.0			1.000			
A9.11111	Excavating thick sludge, transport in 30 m	103	3.938.00	1.1	173.168		220.575	359,240,471

Code		APR.	Volume		Prite		Carlina D	2004
NOME	WOTK (DEIXE3	10.1		Material	Lalor	Machine chiff.	Total price	Areount 91,862,550 07,918,091 21,145,391 28,580,105 52,316,082 278,1042,241 39,159,074 49,462,382
A9.11121	Transporting in 70 m more	- tm5	3.908.00		18,053	· · · · · · ·	2 995	91,662,550
AB 34110	Grading the soil in the dimping area by a buildoger 110 VN	100m8	254.02		1	191 236	205.534	100.319.051
AB 24122	Digging for removal of service road & scaffold by excavator =	100 m5	18.53		119:741	838,404	1,279,213	21,145,391
	0.8m3, Soil grade II	1						
AE-41112	Transporting soil by damp tracks	100 m3	18.52			1.198.557	1.607.992	28.580, 105
	Distance = 300m, truck 5T Soil grade II	1.1.1						8
AE 11512	Digging drainage duch at the bottom Bo=3m Ho=1m and grade I	1:03	245.00		167,638		213 535	52,316,082
AR 98110	Construct a stone lover 2x4 as a suffer for the dramage distines	1:03	245.00	572,444	818,499		1,124,674	278/044/341
AL.18122	Spreading geotextile fabric fabric	100 m2	8.62	3,350,688	215,689		4,542,816	39,159,074
GTT	Pumping water into foundation put 20CV	shift.	200.00			184.109	247.415	49,402,932
		1.7.11			-			×
	*Cafferdam at the downstream & upstream	1.1.1				·		×
12.2.1.2.2	+Этераглами						and the Martin	5
AB 22422	Grading the demandation of the soil taken yard	100 mS	8,47	1	L	\$25,681	1,109,591	7 179,054
1	L<=50m, bullitoper <=110cv, Sml grade II	-		- in the second				
AD 21228	Emiankment with aggregate with thickness of 30 cm for demancitian	100 m2	8.40	9,215,265	800,600	1,879,775	15,182,825	122,978,855
1.000	+Embankment of cofferdant	1-1-1-1		1 The second sec	1	1.000,000,000	The sectors	
AB 63111	Embankment of cofferdam by compressors 9T, dt =1 550 m3	100 ms	165.83		272,641	549.187	1.085,313	179.977.381
1.	soil taken from the soil ground	1.0.0	1 m - 1 m - 1 m			1.1.1.1.1.1		
AB 24122	Digging soil for embankment by excavators =0.5m3	100 mS	182.41		119,741	838,404	1,279,213	233,345,080
	Soil grade II							×
AE-41112	Transporting soil by dump trucks	100 mS	182.41			1.198.857	1.607.992	293, 318, 588
	Distance = 300m, truck 5T, Soll grade II	-					-	×
AE (63111	Embankment of cofferdam by compressors 9T, dit=1 551 m3	100 m3	42.07		272,841	549,187	1,085,313	-5 \$53,039
	soil taken fram diversion cannel	_						×
AB.66111	Sand embailiment for anti-subsidence	100 ma	2.00	9,307,142	276,328	518,547	12,904,173	25.808,357
AD.21225	Emblankment with aggregate with thickness of 20 cm mit dap	100 m2	7.50	9,335,252	006,006	1,079,775	15, 182 325	+(1.887,440
AB.ET212	Damaging cofferdam by excavator bucket 1 fim	Sm00t	138.60	1	322,803	2,711.864	4.055.276	502.061.271
				1			1	*
							i	×.
	-Shuce connecting path:			- 1				X
AB.22121	Digging and transporting organic soil in a distance 🖛 film	100 mE	13.50	1		87D,462	90%,000	2,162,494
	Buildozer = 110CV, Soil Grade I	1000		1	1 Ache			
AE 64112	Emioankment for road bases by compressors ST K=2.0	100 718	87.53		230,638	755 449	1,482,835	1001077.631
A	soll taken from the storage yard					L		
AB 24122	Digging wal for embankment by excitation =0 Im-	100 m3	74.25		119,741	83E 404	1.279.213	建建 增长
1	Sail gade II				1	1.000	5 F	
AB.41412	Transporting soil by dump marks	100 ms	74.25	a 1 1 1 1 1 1 1 1	a	1.910,469	2.567.382	190.620.094

Code	in the second	NHU.	Votume		Price	II	Total	- 4 1.02
Normas	AAAAA URIAR	1	-	Material	Labor	Machine shift	fetal price	Americ
	Distance ⇒1000n.truch 57,500 grade E						~	× .
AD 21228	Endankment with aggregate with thickness of 20 cm	100 -12	37 50	9,335,252	600,600	1.675 775	15 182 225	518,207,199
	PEnnin Saladini (Kan)	-						<u> </u>
12 14 1995	Contents of hotens which migh steam 167 MIAA D. Tohma	1.01	750 70	1 21/1 5/1	389.000	40.057	3 109 651	EN 411 101
AF 11220	Concrete of contomisation with stone 1N2 Minute 2-2000	102	229,10	1.010,042	702,900	49,657	2,100,020	224, 111, 209
AF:12190	Concrete of edge posts, fills sheets ~ 43000	104	267.40	1,400,100	/00,001	90.095	2.004.050	001_208./#6
AT 191445	relight = 10 m. concrete mortar with stone 1%2 M.300	1.00	244.00	1 259 760	700 004	105 150	7 064 620	212 000 100
AF ARAAC	Stone concrete 142 MINO for energy dissipates forward the sen	1102	214,90	1,300,100	705,00/1	90,000	2,004,000	010.000,100
AF. 12143	prome concrete 1x2 with the start of an analysis toward the participants	1ma	219.20	1,308,100	785,854	90,035	2,804,050	027.525.539
AF:12513	Concrete with some 1x2 M300 for transport ortages	1662	320.80	1,19/.100	710,974	90,033	2,009 500	830.493.324
AF. 1251a	Concrete with sione 1x3 M200 for transport bridges	165	31.20	1,034,025	7.10/9/4	90,058	2,301.602	-/3.3(7.789
AF LIGASS	Concrete for pulling system of fock varies 1x2 MSOC	TITS	137.37	1.340.319	902,010	90,035	3,008,962	421,401,970.
AF:12223	Concrete for pulling system of rock valves 1x2 M200	1 mg	13.50	1.182,245	962,010	96,035	2,887.184	38,625,966
AF.11213	Stone concrete 1x2 of backyard M200	1 ma	146.90	1,034,028	302,110	40,857	1,750,871	258,084,281
AF:11213	Stone concrete 1x2 of transition section M200	1 mG	87.00	1.03#.028	302,116	40,857	1,758,871	117,740,326
AF.15313	stone concrete 1x2 tim int mu M200	1000	581.70	1,034,028	502,505	58,118	2,162,778	1,258,088,865
AF.11212	Concrete of stone slab 1x3 M150	105	98.10	950,506	302,118	40,657	1,050,484	181,912,463
AF.11121	Crushed stane concrete 446 lining, B = 250cm	175	100.80	840.627	217,976	40,864	1,402,821	141,253,981
AK-41124	Lining morter grade M75 with thickness of 3 cm	1 (72	2,886.67	22.423	22,811	809	56 323	187 192,510
AF_EDINI	Different types of metal formwork	100m2	57.60	5,718,264	6,237,921	511,011	18,461,427	1,088,942,810
AF.61522	Fabrication of different peinforcement	ton	222.92	17,399.809	2,078,999	197.261	25,345.802	5,850.059.804
ALANATO	fabrication of couplings by PVC plate:	100	81,00	292,821	373,444		975.060	59,539,663
AL 251/12	Erection of nibber bridge bearing	piece	30.00	578,465	763,206	1	1,698.256	50.887,688
AL 18122	Spreading geotextile fabric fabric on land	100 m2	81.22	3,350,688	215,689	1	4,542,816	369,421,800
085.3	Erection of stone gibbins (purchased globins)	m2	785.00	489.789	323,233		1,035 620	B12.961 857
GTT1	Galison wire mesh	70	6.931.00	45.000			57 221	397.288.835
Æ11114	Ashlar M100	1/63	21.40	875.198	381,449	-	1.600.706	34,255,102
AK 96110	Making sand filter beds	100.45	3.43	24,318,842	1,081,364	1.078.199	33,800.913	115,937,131
AK_SE131	Making filter beits für trusked-stonel 12	100 m5	3.64	62,749,075	1,584,287	1,211,618	70,837,518	257,706,884
AC. MMC.	Driving sheeting piles with Lpile = 4.5m. Soil grade II	tap m	+,352,57	570.810	561,190	1	1,441,931	+.950,305,106
AD 21205	Construction of road surface with aggregate d=20cm	100 m2	9.00	9,335,252	600,600	1,879,775	15,182,325	138,640,928
AB.66113	Sand embankment for road bases by compressors 97 K=0.95	100 m5	34.50	9,307,142	276,328	911.370	13,432,074	#83,406,541
AB.64112	Embankment for road bases by compressors 9T K=0.9	100 m5	33,30		320,538	709.445	1,482,635	49.371.730
AB 24122	Dieging soil for embankment by excavators (=1.25m3)	100 /13	38.62		119,741	853,949	1,900,104	47.622.797
	Soll grade E						-	
AE-41111	Transporting sail by dimp gucks	100 m2	362			1.026.738	1 379.778	554131
	Distance <= HOmitruck 7T Soil grace II							
	* Wing wall		1	1			- 1	

Code		218.0	Votume		Prite		Tables .	all second
Norms	WALK IDENTS	1.1.1		Material	Labor	Machine shift	Total price	Autonut
AB.65143	Sand embankment by Vibratory Rummers K=0,95	100 m5	00.6	9,307,142	832,400	699,439	13,919,281	\$3,515,667
AB.65113	Sand embaukment by compressors 9T R=0.95	100 m5	+4.00	9,307,142	276,326	911.370	13,432,074	188.049.031
AE 65130	Soil embankment for wing-wall by vibratory rammers K=0.95	400 m5	10.00		2,190,763	1,420.053	4.898.897	84 550 146
AE 64113	Soil embackment for wing-wall by compressor 97 K=0.95	100 m3	42.00	2	120,538	1.119.227	1.812.969	10.3/0.504
AB 54124	Digging seal for embankment by excivations =0 Sink	100 m3	88.00		42,109	705 023	1,004,774	70,275,080
-	Soli grade I				1			
AE 41111	Transporting sail by dimp marks	100 m3	58.00		1	956.671	1.236 位1	84.851.006
	Distance == 300m, much 31, Soli grade I		1	1	-			*
-								
	* Stans of waterway manaport	system	1.00				100.000.000	100.000.000
-	* Protective fetice for works	aystem	1.00		1	· · · · · · · · · · · · · · · · · · ·	300.000.000	300.000.000
	 standik men ejectricit	aystem	1.00		1		300.000.000	300 (000,000
	* Mecianics							×
	Valve gne (10,5x8)m +TB - Black seel	1se	1,00					
	Valve gate (10,510)m - Stamieus steel	set	1.00					2
	11-Open sluide Bc=7.5m (01 sluide):							29,741,207,442
1.7.7.7	* Site area				1			
A# 11111	Site Clearance	100 70	420.00		175,006	1	205.921	93 E2E 906
AA 12111	Cutting down trees in flat ground Direc <=20km	tee	00.008.1		807 25		38.158	45,023,454
A4.13111	Digging tree stamps Dtree <= 10cm	Itee	1.800.00		1E 943	· · · ·	46.951	75.089.227
AA.13211	Digging bush of water mount Disush 4=30cm	Ine	500.00		97,635	2 · · · · · · · · ·	124.367	12, 183, 259
AB, 13214	Dush Thug: Shice	it mis	+.031.00		143,216		190.070	195.961.802
AB. 11212	Soil Excavation for embankment - Soil Grade II	ins.	+.103.17		114,215	1	145,485	100,495,187
AB 22121	Digging and transporting organic soil in a distance of 50m	100 mS	12.07	1 T	1.0	070.462	901-000	10.875.065
10000	Bulldozer = 110CV, Soil Grade I		4					
AE 13312	Emilankment in combination with service roads, R=0.9	1 (73)	917.00		192,638		168.951	154 917 917
1	Using soil from the excavated pit for embandment							
AE 64112	Embankment in conformation with service roads, compressor PT E=0,9	100 m3.	27.52		380,538	795.449	1,482,835	40,602,102
AE 54122	Digging soil for embankment by excavators =0.8m3	100 m3	湾27		#19.741	838-404	1,279,213	38 724 336
	Sall grade E	1.0.0.1						
AB.41112	Transporting soil by dump tracks	100 mE	30.27	1		1,196,557	.607.992	\$2,677,124
	Distance ≈ 300m, truch 5T, Soll grade II	1.1.1					-	× .
AB.13312	manual embankment of service roads R=0.9	3 m2+	308.00		122,638		158.951	51,690,958
	Using soil from the excavated put for endoankment						1	*
AB 64112	Eminakment of service toads, compressor 97 K=0,9	100 mE	3.17		230,638	716 449	1,482,635	13 <u>58</u> 755
AB 34122	Digging sull for embankment by excavators =0.8m3	100 m2	10.12		119,741	838 404	1,279,213	1790,401
	Soli grade II	1000			a constraints			×.

Calle	Minet lines	Unit	Vileme		Price		THURSDAY	Reacted
Nome	HARD (Gans	1.11	1.000	Material	Labor	Machine thift	fotal price	Amount
A2 41112	Transporting soil by damp tracks	100 m5	10.09			1,196,557	9,607.992	18 219 612
-	Distance = 300m, truck 5T, Soil grade II						× 1	
AB. 13111	Manual embankment of site ground	1m2	525.00		103,162	1	121.406	88.988.214
	Using soil from the escavated pit for embankment	1.200				1		
ABIEZIII	Enthankment of site ground by compressor 9 Ten K=0 Li	100 m2	15.75		136,32/	452,038	834,886	13, 149, 135
AB 14125	Digging soil for embaniment by excavators =0.5m3	100 55	17.22	-	1(9,74)	638,404	1,275,213	22.162.385
1.000	Sail stad# 0	1.100			Press Press A	10		
AB.41112	Transporting soil by dump truck:	100 m3	17.22			1.195.557	1.607 992	27.858.456
1.1	Distance = 300m: truck 5T, Soil grade II	1.000			Real Property and	· · · · · · · · · · · · · · · · · · ·		
AB.11512	Diggung drainage ditches B≈3m, H≈1m, Soil grade II	ima	299.00	1	167,688		.211 535	03,848,97,5
AD.21228	Embankment with azeregate with thackness of 20 cm for service roads	100.m2	34.20	9,835,252	800,600	1,079,775	16,102,325	519,235,525
BE 11238	Installation af concrete pipes D500mm	100m	0.70	54.584.400	17,798.581	8,550,545	100.976.252	70.684.762
AB 27120	Land levelling as the previous condition of site ground, distance =50m	100.005	20.60			825,682	1.109.591	22,191,823
	Bulldozer = 110CV, Soil Grade II						× 1	
GTT	Material loading and unloading terminals	0.605	1.60	25,000,000			31,644.758	31,644,758
AB 27212	Digging the diversion canal by excavators = 0 Bm5	100 m2	- 54.69		1.072.148	1,011,543	2,725.046	149.022.756
	Width == 10m, Soil grade II							
A8,41112	Transporting soil by dump tracks	100.m2	59.69		-	1,196,657	1.607.992	\$7.941,065
	Distance 🚝 300m, truck 5T, Soil grade II							×
	Dile shrving for ground reasons	-						
	+ Pile castine want						~ ~	~
A2 17110	Grading the mile rasting yard by hulldoners an 11000 and grade T	100.05	1.20			675,687	11/04 551	1.50.678
AX 41114	Martiar with grade 25 for tunneling ground 3 ran	1/62	400.00	15 827	14,884	1006	35 800	15,833,280
AF 11121	stone-ined concrete 4x5 M100, width = 25cm	1m3	20.00	840.627	211.378	40.664	1,402,521	38.048 421
1					-		100	
	+ Scattola:	- P	1.000				1.00	
AE 62111	Soil embankment for scaffold by compressor 9 T K=0.15	100.m3	1.38		136,321	492,036	834,868	1,152,115
AB 24 22	Digging soil for embankment by excavators ==0.5m3	100 m2	12		119,745	838.404	1,279,213	1.941.645
	Soll grade II	a	·				· · · · · · · · · · · · · · · · · · ·	-
AE 4 MILE	Transporting soil by damp tracks	100 mE	151			1_198.857	1.607.992	2,440.931
	Distance = 300m, truck 5T, Soil grade II					1	×	
11158.EA	Sand embankment for staffield	100 m8	1釜	3,307,143	276,326	518,547	12,904,179	17,807,767
AD 24239	Aggregate of scattold with thickness of 20cm	100 m2	2.78	9,335.252	003,006	≜.\$79.775	15.102.325	41.900.215
AD,21223	Aggregate of scatfold with thickness of 10cm	100 m2	2.75	4,867,626	414,089	897.599	7.679.277	21,194,905
							× 1	
1	+ Fabrication;	1000				1	×	1.00
AG 11115	Production of pre-casted concrete components	1 m3	100.33	1.179.611	327 111	63,930	2,017,907	150,010,188

Cude		UNIE	Viligia	-	Price		turner	. Account
Norres	Wers Uses	1		Material	Laker	Machine shift	sotal price	Astenset
	piles, column, concrete motivar with crushed stone 1x3 MS00	·				1	× 1	~
AG 13121	Pile reinforrement	lon	- 47 安	17,399,809	1,561,746	:075,895	24.107.021	1,188,832,816
AG 31121	Fabrication, election and dismustling of pile formwork	100 m2	13,21	834.723	5,288,871	Apr 14	7,800 175	34.357.775
AJ.13151	Production of pile splices	ton	18,92	18.305.814	5,696,765	1.024,542	31.951.053	104.834.003
AJ.84151	Election of pile splices	ton	18,92	#11,280	1,786,174	.279.828	3.975,142	80.105,434
AJ.11/131	Production of driver pile of steel profiles	ton	I.40	19.070.948	2,044,418	1.696.359	29.174.810	70.019.543
1	Entry	1.1					*	
	+ Pile driving.							
AG.41141'	Pile transport	at201	30.00			302 769	416,262	37,465,395
AC 15223/	Pilot File Driving on ground, hammer =2.11	100 m	2.84		1,893,287	12,426,235	19.110.006	42,607,758
in the second second	Soil grade II. Pile L=04m. F=35x35cm (K=1.5)		1			1		
AQ.15223	Driving reinforced plumb piles on ground, hammer =2 57	100 m	5.65		1,262,178	8,284.157	12,740,404	70,709.242
	Soil grade II. Pile 1=24m F=35x35cm			1		1	· · · · · ·	
AC.15223	Driving Reinforced negative piles on ground, hammer =2.57	100 m	8.10	1	1.262,178	8,284,157	12,740,404	103, 197, 273
	Soil grade II. Pile I.>D4m F=35n35cm			1				-
AC. 1522944	Driving reinforced batter piles on ground, hammer =2.5T	100 m	4,94		1,514,614	9,940,959	15.288.485	67.880.873
	Soil grade IL Pile L=14m F=35x35cm (N=1.3)						×	-
AC 15223**	Driving reinforced negative piles on ground hammer =1 57	100 m	3.64		1,325,287	3.698,965	13.377.45#	3.581.552
1	Soil made E. Pile L-O4m F=35x35cm (K=1.05)					1	-	~
AC 23110	Dismontions driving rules	100.05	3.64		572,437	4,655 928	7.035.782	4,595,460
AA 21241	Pile hand breaking	ins	1.74		1,098,414	1	1.399.150	5,232,820
GTT	using bulldozer 100 cv	shift	50.00		1.1	888.397	191.571	59,697,562
	And a second sec	1	1.000			1.00		+
	*Foundation pit excavation:	· · · · ·		1		1	1	
AB 22122	Grading of service roads for foundation pit and storage yard	100 m3	8.80		· · · · · · · · ·	825,682	109.591	9.784,402
	L=50m, bulldoper =110tv. Suil grade II						· · · · · · · · · · · · · · · · · · ·	
AD 21228	Embankment by aggregate for service mud with the thickness of 20 cm	100 m2	33.70	9.335,252	800,600	1,879,775	15 182 325	511,644,362
AE 88113	Soil Embankment of service made E=0.95	100 /m3	7.88	9.307, 143	276,328	911.370	13.432.074	104,770,174
AB 25412	Soil from foundation excavation is fumped directly on trucky, and grade l	100 m3	半線		281,957	960.929	1,625.021	71 598.410
Aa.35111	Foundation excavation on the weak and soft soil	100 m3			1,934,279	1.709.850	4,781.378	629.371.091
	by two escavators			1	-		× .	
AB, 11382	Manual foundation excavation with the width > 3m	1 mã	3.234.00	1	147.374		187.723	807.098.398
	Depth 2 3m., Soil grade II							
A8,24121	Soil taken on trucks by sucavator =0.8m3	100 mã.	32.34		92,109	705,025	1,084,774	34,434,775
AB 41111	Transporting soil by dump works	100 m3	13.57			26,671	1.285.601	389, 142,036
	Distance <= 300m, truch 3T Soil grade 1							
AE 11111 EA	Excavating thick sinder, transport in 30 m	3.65	3,737 00		173,184	1	231,575	824.287.388
AB 11121	Transporting in 70 in more	161	3,737.00		19,053		22 995	105.938 497

Civide	West Deser	Unit	Vélene		Prite	-	Triste	Barchald
-	WOR DEPES	10.00		Material	Lalor	Moshine chiff.	rotal price	Amount
AE 34110	Grading the soil in the dimpenziarez by a bulldozer ILD VN	Em001	245.94			190.335	266.634	65.851.272
AB 24122	Digging for removal of service road & scaffold by excavator =	100 ms	15.93		119,741	838 404	1,279.213	20.377.863
	0.8m3, Soil grade II		·					
ABAIIIE	Transporting soil by damp tracks	100 mE	15.93			1,195,971	1.607.002	25/115.338
1.	Distance = 300m truck 5T, Soll grade II							
AE 11542	Digging drainage duch in the bottom B =Im, H =1m, and grade D	166	242.00		187,638		294,585	51 1175.478
AX-99110	Construct a stone layer 2n4 as a huffer for the dramage diripes	1018	242.00	272,444	318,498	1	1.134.574	274.839.817
AL 18122	Spreading geotextile fabric fabric	100 m2	1.5	3,350,688	215,689		4,542,816	33,859,384
GTT	Pumping water into foundation pit 20CV	shift	200.00			184,109	247.315	49,482,962
-	No. Color to Mr. Anno 1999 To an anno	-	-					1
-	- Constraint at the downstream of upstream:	-		-				
AD IDADE	Tereparata	1770	7 45			/102 000	4 400 204	2 0001000
ABLEENE	Grading the definitioned of the sou diverty and	1100-512	240		_	629,662,	1,109.391	9.200.200
APR THE PARTY	L'=Sini, minister =1103, Sin grade i	1000	7 415	S WIT MOT	000.000	1.070 225	12 100 000	107 002 000
ADITION	Eminantment with aggregate with the aness of an on the demandation	100-72	7.02	9,330.251	000,000	18/9/7/2	15, 182, 323	107,038,395
AE 85444	Endoministic of controlant bet compared on OT At -1 551mt2	100	145 04		2171 844	640.485	5 005 515	457 449 722
Aplositi	call taken from the tax's mound	TUD rite	140.04		2/2,041	943.307	1.000.213	107.413.123
12 38195	Figure and far and selected by our sensors and find	1 200 - 2010	450 54		110 745	000 404	1 070 145	004 000 795
10.27122	Pail and T	100 100	142-07		112,41	0.30.707	1,213,212	207/070.100
AP 11117	Transporting shill be denor track:	100 mil	153 54			1.196.667	1.607 002	1988 545 418
	Distance a 300m mick TT Soil grade II	100.00	1.427-001			1,1,30,0001	- Charles	
AP BRILL	Endanthment of coffering by compared DT dt =1 \$51 m2	100	47.07		172 844	546 167	1 1005 212	45, 1481, 000
	and taken from diversion connel	(inventa)	2.01		212,011	ert2.16*		
AR 65111	Sand embankment for anti-subsidence	100 mS	7.00	9,307,447	278.328	E18 547	(2.904.179	25,808,357
AD.21228	Embankment with argreente with thickness of 20 cm mit day	100 m2	8.75	9.335.252	008.006	1.879 775	15 182 325	102 480 696
AB.81212	Damaging cofferdam by encayator backet 1 fm	100m3	124.74	101101	322,803	2,711,884	4,855,278	58.88.14
							*	
1				1			- 1	- 1
11	+Sharce connecting path:			1				-
AB 22121	Dissung and transporting premic tool in a distance = 10m	100 m3	13.50	1		870.482	201.000	2,182,494
12	Bulldover = 110CV, Soil Grade I							
AE 64111	Enritankment for road bases by computersors 9T K=0.9	100.45	130.00		300,538	700 449	1,482,686	M31_381_453
	soll taken from the storage yard							
AB 14122	Digging soil for embankment by successions <=0.5m3	100.45	110.00		119,741	638.404	1.179.213	140 711 428
-	Soll grade D							
A8,41402	Transporting soil by dump mucks	100 m3	110.00			1,910,469	1.567.382	三,411.991
1000	Distance =1000mmuch 57.5oil grade II	1000	A			10 ⁻¹		191

Cude	10.0	UNE	Vélope		Price		Tablico	(And a
Nomer	With LEPE	111		Material	Labor	Mashine shift	I wai price	Andest
AD 1 CDB	Embankment with aggrego is with thickness of 20 cm	100 m2	37.50	3,335,252	890,800	1 879 775	15 182 225	加加207.100
								~
	*Sewer construction							
AF.11225	Concrete of bontom slabs with stone 1x2 M300 B-250cm	1m2	-198,12	1,310,542	382,908	40.857	2,188,530	438,822,303
AF. 12145	Concrete of edge posts, Thickness > 45cm	Tm2	227.46	1,358,700	788,861	96.058	2,884 530	851,588,743
1	Height = 16 m. concrete mortar with stone 1x2 M300						× .	
AF: 12145	Stone concrete 1x2 M300 for energy dissipaters toward the set	1 mil	101.47	1,358,700	738,861	98.058	2,884 530	519,844,409
AF.12145	Stone concrete 1x2 M300 for energy dissipaters toward the paidy fields	101	102.74	1,868,700	789,861	95,058	1,864,630	1 13 487 489
AF.12315	Concrete with since 1x1 M300 for transport bridges	365	318.58	1,197,160	710,974	96.058	2,559 650	815,453,203
AF.12313	Concrete with stane 1x2 M200 for transport bridges	1.65	31.20	1.034.026	710,974	95.058	2.351 852	73 377 769
AF.12225	Constraint for pulling system of took values 1x2 M300	3.62	113.13	1,345.379	962,840	96.058	3.068,982	347, 193, 980
AF 12223	Concrete for pulling system of rock values 1x2 M100	1112	11,80	1,182,245	962,610	98.058	2,861.184	33.781.975
AF.11213	Stone concrete 1x2 of backyard M200	THE	123.90	1.034.028	302,116	40,857	1.756,871	217.878,259
AF.11213	Stone concrete 1x2 of transition section M200	ing	56.80	1.034.028	302,116	40.857	4,756,871	99,438,672
AF_16315	stone concrete 1x2 tâm lất mái M200	THE	581.70	1.034.028	002,565	58,118	2,162,776	1258.088.655
AF_11212	Concrete of stone slab 1x2 M150	102	98.10	950,508	302,118	40.857	1,650,464	181,912,463
AF.11121	Crushed stane coacrete 4s8 liming B >250cm	166	38.10	840.827	217,376	40,664	1.402.321	123,544,484
AX:41124	Lining marter grade M75 with thickness of 3 cm	162	2,898,87	22,123	22,811	808	54,523	187,192,510
AF REH 11	Different types of metal incovork	100mC	53 07	5.718,284	8,237,921	511.011	18,461,427	379.781.575
AF.81522	Fabrication of different reinflux-ement	loe	202.68	17.399.809	2.078.999	397.261	25.345.802	5,138,981,677
AL HAT	fabrication of couplings by PVC plates	1 m	40.00	292,824	473,444	· · · · · · · · · · · · · · · · · · ·	975.060	39,042,402
AL 25112	Erection of rubber bridge bearing	diece	30.00	578,455	753,206		1,696.256	50,887,688
AL 18122	Spreading geotextile fabric fabric on land	100 m2	78.72	3,350,688	215,689		4,542,516	357,610,478
035.9	Erection of stone sabions (purchased sabions)	ma	742.00	489.789	323,293	1	1.025.620	768,430,188
GTT1	Gabion wire mesh	m2	6.558.00	45,000			57,321	375,793,623
AE 11114	Ashlar M100	3.053	21.40	875,198	381 #49		1.600.708	34,255,102
AK_98110	Making sand filter beits	100 m3	28.74	24.316.842	1,081,354	1.078.199	33,800,913	903 836,408
AK_96131	Making filter beds for trushed-stonels.]	100 m3	3.49	52,749,075	1,594,387	1,211,818	70.837 518	247 222 933
AC 11122	Driving theeting piles with Lude = 4 Jun. Soil grade II	(D0 m	1,215,97	570.810	561,190	1.	1,441,931	1.752.336.222
AD.21228	Construction of road surface with aggregate d=10cm	100 mZ	9.00	9.335.252	800,800	1.879.775	15.182.325	136,840,928
AE.06113	Sand embankment for road bases by compressors 97 K=0.95	100 m3	34.50	9.307.143	276,326	941,370	13,432,074	403.405.541
AE 64112	Embankment for road bases by compressors 9T K=0.9	100 m3	33.30		320,538	799.448	1,482,635	49.971.730
AB 24132	Digging soil for embankment by excavators =1.25m2	100 m3	36.63		119,741	853,949	1,300,104	47.622.797
1.	Sail ende I					1	-	-
AE 41112	Transporting sail by dump tracks	100.051	38.62			1,026,755	1.379.778	50.541.251
	Distance = 300m truck 7T Soil grade II			-				-
1.	* Wine will:							
AE 65143	Sand embatikment by Vioratory Rammers K=0.95	100.02	8.00	9,307,142	882,400	699,433	(199.391	E2.515.657

Cade	Hite Incor	UNIC	Valense		Price	Price		
Norma	With Hells	1.11	1.1.1	Material	Labor	Mochine shift	1 oral price	Amount
E1166.EA	Sand embaukment by compressors 9T R=0.95	100 m5	14:00	9,307(943	276,328	911.370	13,432.074	188.049.031
AB 65130	Soil embankment for wing-wall by vibratory rammers R=0.95	100 m5	18.00		2,190,763	1,420,053	4,698,897	84,580,146
AE 64113	Soil embankment for wing-wall by compressor 97 K=0.95	100 m5	42.00	Ť	320,538	1,119.227	1,912,369	80.319.504
AB 54121	Digging will for embankment by encovations (=0.3m3)	100 mil	88.00		32,109	705.025	1.064.774	70,275,052
	Soli grade I	1.1.1.1.1			· · · · · · · · · · · · · · · · · · ·	1		- ×.
AE 41111	Transporting soil by dimp muchs	100 ct2	58.00			956.671	1,285,621	84,851 006
-	Distance = 300m, truck 57,36E grade I	-		-			-	
	* Steps of waterway manapolt	- cyslem	1.00	-			100.000.000	100.000.000
1.1.1.1	* Protective feace for works	giptern	1.00				300.000.000	300.000.000
	* Hornes area electricity & water supply	cyslem	+.00				500,000,000	300.000.000
	* Merinnics	2	1					
	Valve gate (7,5x6)m -TB - Black steel	tec	1.80					
	Valve gate (7,5%6)m +TB - Stainless stæl	lse	1.00					
	12-Open shite Br=fm (01 shite);		-					24.729.547.572
10 C	* Site area		-					
AA, I UU I	Site Clearance	100.m2	380.00		175,006		222.921	84,710,058
AA 12111	Cutung down trees in first ground Drees ==20km	1 tee	1.200.00	*	507,52		-28 158	33,790,091
A4.13111	Digging tree stumps Darse = 20cm	tree	1.200.00		38,843		46,931	58.316,920
AA 13211	Dieging bush of water cacount Dhush ==30cm	tree	400.00		97,835		124,387	-48.746.808
AE 13214	Dinh Trung Shiles	166	918.00		149,218		190.670	174.103.793
AE 11211	Soil Excavanon for embankment - Soil Grade II	1 (65)	980.12		114,215		145.465	142,593,202
AB 22121	Digging and transporting organic soil in a distance = 50m	100 mil	10.73	1		670.462	901.000	9.667,725
	Bulldozer = 110CV, Soil Grade I		-	- 1			-	*
AB. 13912	Embankment in combination with service roads, K=0.9	it mā-	858.00	1	132,838		168,951	144,621,916
	Using soil from the excavated pit for enjoundment			1				
AE 64112	Eminukment in combination with service roads, compressor 97 K=0.9	100 mE	25.89		330,538	705 449	1,482,635	32,088,681
AB 54122	Digging will fot embanisment by excivations <=0.8m3	100 m3	28.26	-	113,741	838,404	1,279,213	58,149,285
a second	Soli grade II.		·	-		1		×.
AE 41112	Transporting soil by dump trucks	100 m3	28.26		-	1,196,927	1 607 662	45,440,237
E. net -	Distance = 300m, mark 5T, Soli grade E	1.00	1			1	1	
AB 13912	manual embankment of service roads K=0.9	il m3:	285.00		132,686		160.951	49,150,968
the state	Using soil from the excavated pit for embindment		1	1		1	1000	×.
AB.64112	Embankment of service roads, compressor 97 K=0,9	100 ms	8,56		320,638	799,448	1,462,635	12,691,352
AB 24122	Digging soil for embankment by excavators =0.8m3	100 ms	9.42		119,741	838,404	1,279,213	12,045,070
-	Soli grade II			1		1	1. 1. 1. 1.	
AE-41112	Transporting soil by dump trucks	100 ms	9.42			1.196.857	1.607_992	15,140,850
	Distance = 300m, much 51 Soil grade II					in the second second	and the second sec	- A.

Citide	Castadaria	UNI	Vilene		Price		Table arms	. August
Normes	Water liests	1.1	1.00	Material	Laiver	Machine shift	recal proce	Alenabr
AE 13111	Manual eminankment of site ground	168	451.10		-10.02	1	131,408	夏122755
	Using soil from the encovared pit for embunkment	1.00	-			1		× .
AB 62111	Eminutement of site ground by compressing 9 Ton K=0.15	100 m5	(3.50		136,321	452,038	134,388	-11.270.667
AB 24122	Digging soil for embankment by excavators =0.8m3	100 m5	14.85		119,745	838.404	279.213	18,996,313
1000	Soil gande E		E			1000	110.00	
AB.41112	Transporting soil by dump tracks	100 m5	14.85		-	1.198.557	1.607.992	3.878.677
1.00	Distance = 300m, truck 5T, Soil grade II					1	1.000	
AB. 11512	Dissens drainage ditches B = 5m, H = 1m; Soil grade H	Timo	279.00	-	157,808		2/5.535	59.578.272
AD 21228	Endonkment with aggregate with thickness of 20 cm for service roads	100 m2	31.90	9.335.252	803,600	1.879.775	15, 182, 325	484.316,177
88.11298	Installation of concrete rupes D500mm.	100m	0.60	54,584,409	17,798,591	8.550.545	100,978,232	30.588.939
AB 22122	Land levelling as the previous condition of size ground, distance <=50m	100 m2	20.00			825 882	1,109,591	22, 191, 822
	Bulldozer = 110CV, Soil Grade II			-		-	- 1	
GTT	Material loading and unloading terminals	diece.	1.00	25.000.000			31,844,758	31,8#1,758
							-	× 04 (01 - 2
-	Pile driving for ground treasurent			*			-	*
	+ Pile castine varii			*				× .
AB 27(29	Grading the ulle casting ward by bulldowers = 110CV, soil grade II	(00 🐨	1.20			875 882	1,100 901	1 33H 509
AK 41114	Martar with grade 75 for toweling ground 1 rm	1.62	400.00	15.802	14 834	808	39 565	15 833 290
AF 11124	sinne-lined constate 4:5 MI00, width + 35cm	1 (11)	20.00	842 827	217 378	40 684	V 402 821	29/046 421
re p [est								
Sec. 1	+ Scatfold:	-	1		1000 A. 110	1		
AB.82111	Soil embankment for scaffold by compressor 9 T K=0.85	100 m5	1.04		158.321	492,038	834 866	1954 066
AR 34122	Dissure soil for embankment by excannors and \$m3	100 m5	1.14		119,741	838 4/14	- 279 213	1 456 384
	Soil stude IT			-				
49 41112	Transporting sail by dump trucks	100 mS	4.14			-1-106 557	~ 807 992	1.830.809
the the part	Distance <= 300m mick 5T Soll made T	100.015	10.1			1114404407		1,000,000
AF RETTI	Sand enthankment for a affold	100.05	1.04	9 307 143	276 328	518 547	17 984 179	13,385,825
AD Serve	Assurements of scaffold with thickness of 10cm	100 m?	2 07	8 335 267	893,600	1.879.775	15 187 225	31 427 413
AD Seros	Aggregate of scaffold with durkness of 10cm	100 m?	2 107	4.887.828	414 RPR	807 900	7 #74 777	15 896 104
	a second for a second de la seconda de a second	Cost the		1999 1999	1. Cologie	and the set	1000000	THE BOOK TO T
	+ Existination:			*				
AG 11115	Production of one-casted concrete components	1	184.57	1479.549	237 117	63.030	2 017 907	231 098 018
menting:	milet column, concrete morter with cruckel store 1x2 M300	1.004	107.96		340.01	Vie 354	2.9(1:50)	001,000,010
46 13104	Dila nanforramani	tion	£1 30	(7 300 800	1.551.256	\$75 605	74,857,924	1 744 490 198
AG 31171	Fabrication exection and diamontline of nile formwork	100 57	B 40	834 7.24	5 700 074	214.955	7,600,521	73 330 967
41 (3)5/	Dirafuction of nils office:	lon	(8 45	18 305 844	5 895 785	1 (274 540	31 261 061	25 536 117
4184151	Fraction of rule colora	log	18 45	411 290	1796 174	1711.000	3 175 149	193 294 082
A1	Dramition of driver nils of their mofiles	dise.	10.42	10 070 048	2014 116	1 805 354	30 174 810	7/1 0/10 5/13

Code	CHI MAN A	UN	Voiane		Price		Sec. 1	147.000
Norme	WON ISKS	611		Material	Labor	Machine shift	Total price	FINOUNT
1					1.		10 DEL	
H	+ Pile driving:		1000 million (197	B		100 P	(a) (a)	
AG411411	Pile mansport	doan.	96,00			309,769	416,282	35,600,268
AC. 15/2097	Pilot Pile Driving on ground, hammer (=0.57)	100 m	2.24		1.593.207	12,438,235	19,110,608	42,807,753
	Sail grade II. Prie L>24m: F=35x35cm (K=1.5)							
AC. 15205	Driving reinforced plumb piles on ground, hammer =0.57	100 m	5.55		1,282,178	9,284.157	12,740,404	78,709,242
	Sail grade II. Pile L. 24m F=35x35cm					· · · · · · · · · · · · · · · · · · ·		-
AC: 15223	Driving Reinforced negative piles on ground, hammer =2.5T	100 m	6,90	1 2 2 2	1,262,178	3,284,157	12,740,404	97,908,788
	Soil grade II, Pile L>24m F=35x35cm		1.				× 1	
AC: 15222 th	Driving reinforced batter piles on ground, hammer 32.51	(m 001	3.44	10 million (11	1,514,614	9,940,968	15,288,485	87,880,873
+	Soil grade II, Pile L>24m F=35x35cm (K=1.2)	1000					~	
AC.15221***	Driving reinforced negative piles on ground, hammer (=1.5T	100 m	66.0		1.325.287	5,698,385	13 377 424	7,491,359
	Soil grade II, Pile L-14m F=35x35cm (K=1.05)	e = = = =						1.131
AC 29110	Disponting driving piles	100 m	0.66		372,427	4,685,369	7 039 782	3,942,273
AA21241	Pile head breaking	1.m3	3.49		1.098,414		1 399,153	4,883,032
GTT	using buildozes 150 cv	shift	40.00	100 C		888.397	1,199,871	47,754,850
			-			1.	181	-611
	*Foundation pit excavation:			-				
AB 22422	Grading of service roads for foundation oit and storage vani.	100 m3	8.60			825,682	1,109,591	9.764.402
	L==50m bulldozer ==110cv. Soil grade II							
AD 21238	Embankment by aggregate for service road with the discloses of 10 cm	100.mZ	32.75	9,335,252	300,600	1.879.775	15,122,525	497,221,153
AE 88113	Soil Embaniment of service roads K=0.05	100.m3	7.48	9,307,143	276_326	911,370	13,432,074	100,471,911
AB:25412	Soil from foundation excavation is dumped directly on trucks, soil grade 1	100 m3	38.55		261.957	960,929	1,625,021	82,844,547
AE 26111	Foundation sucryation on the weak and soft soil	100-#3	122.17		1,934,279	1,709,653	4,764,378	829 311 091
-	by nwo escavators							
AE 11382	Manual foundation excavation with the width > 3m	Emil	2,772.00		147.374		157,723	520,368,341
	Depth > 3m . Soil grade II						× 1	•
AB 24421	Soil taken on trucks by excavator =0.9m3	100 mB	27.32		92,109	705.025	1.064.774	29.515.522
AE 41111	Transportung soil by dump trucks	500.mB	198.44			958.871	1.285.621	255.118.699
	Distance -= 300m track ST Soil grade 3							-
AE 11111	Excavating thick sludge, transport in 30 m	1.60	3 488 00		173.464		220 575	789 384 308
AE.11121	Transporting in 70 m more	1.60	3 488 00		19 (252)		22 398	90,210,463
AE 34111	Grating the soil in the dumping area by a buildinger 110 VK	1DGvm3	739 37			198.338	066 534	87 187 818
AE 24122	Digging for removal of service road & scattold by encavator =	100 m3	14.51	1 1 1	119,741	838.404	1,279,213	19.561.381
	0 Sm3, Soil ande II							
AB 41112	Transporting soil by dump trucks	100 m3	14-58			1,196,557	1,607,997	23.331.954
	Distance <= 100m truck ST Soil =rade IT	-						-
AB.11512	Digging dramage dirch at the bottom Bogsm Hogim, soil grade I	1/78	239.00		167,638		213,535	51 034 871

Code		990	Volume		Prite		+ 10000	defined.
Nems	Work Iteres	12	-	Material	Labor	Maeline shift	I ofal price	Ateoset
AK 98110	Construct a stone laws 254 as a buffer for the drainage diriches	1 / / 3	239.00	572,444	318,499		1,134.374	111,234,994
AL 18122	Spreading geotexule fabric fabric	100 mZ	8.40	3,350,688	215,689		4,542,818	38,159,665
GTT	Funnping water into foundation pit 10CV	fiele	200.00			184.100	247 545	49 489 937
							× .	
	*Cofferdam at the downsersam dt upstream		-				× 1	
	+Preparation	1					~	
A5 22122	Grading the demarcation of the soil taken yield	100 mB	231			525,682	1,109,591	2,583,155
	L =50m, bulldozer =110cv, Soil grade II						× 1	
AD S1208	Embankment with aggregate with thickness of 10 cm for demonators	100 m2	2.90	9,335,252	006,006	1,879,775	15,182,325	44,008,743
	+Embankment of cofferdam							
MEB3M1	Embankment of cofferdam by compressors 9T, dt =1.650m3	100 43	-59.15		272,641	549 187	1,085,313	64,198,237
	soil taken from the soil ground							
AB 24122	Digging soil for embankment by excavators =0 Em3	100 mB	65.07		+19.741	838,404	1,279,213	83,231,994
110.00	Soil grade II.		100 C		1.111 march	1000 million (1997)	· · · · ·	
AB.41112	Transporting soil by dump trucks	100 m3	65,07			1,196,557	1,607,992	104,623,979
1	Distance = 300m, track ST, Soil grade II					dament and there is	·	
AB.88111	Sanii enbankment hu anti-suloidenze	100/m3	2.00	9,337,443	276,326	518,547	12,904,173	25,808,357
AD.21238	Embankment with aggregate with fluckness of 10 cm met dop	100 772	3 75	9,335,252	800.600	1,879 775	15, 182, 325	56,933,720
AB.51212	Damaging cofferdam by excavator bucket 1.6m	100m≣	45.50		322,809	2,711,684	4,055,278	194,515,084
		_					~	~
			-				~ ~	-
1	+Shice connering poli:							
AB 12121	Digging and transporting organic soil in a distance = Con	100.m3	13,50			600.482	300.000	12,163,494
	Bulldozer = 110CV, Soil Grade I	1 1		1				
AB.6411Z	Embankment for road bases by compressors 9T K=0,9	Em 001	100,00		320.630	799,448	1,482,635	148.283,463
	soil taken from the stornge yard						× 1	
A6.24122	Digging soil for embankment by excitators =0 Em3	100.mB	110.00		119,741	538,404	1.279.218	140,715,429
	Soil gnide II	100					Contract of	
AB 21411	Transparting soil by damp trucks	100 m3	110.00			1,910,469	2,867,382	282,411,301
Contraction of the local distance of the loc	Distance =100/method: 57.5nil grade I	1					1.1	
AD.322	Embankment with aggregate with thickness of 20 cm	100 112	37 50	9,336,262	100.600	1,879,775	15,122:325	389,337,199
1	Sewar construction:				1		1	
AF. 11225	Concrete of bottom slabs with stone 1x2 M300 B> 250cm	fintS	119,67	1,310,542	362,908	40.857	2:186.380	248,542,888
AF 12145	Concrete of size posts. Thickness > 45cm	fimã	210,56	1,358,700	788.887	96,068	2,864,630	603,176,496
	Height <= 16 m, concrete mortar with stone 1x2 M300	1					144 m	
AF 12145	Stime controle 132 M300 for energy dissipaters toward the sea	1/6	128.20	1,358,700	788.861	98,058	1,884,630	387,245,383
AF #1145	Stime controle 1x2 M300 for energy discipaters roward the padify fields	1//16	131.30	1,358,700	788 861	98,058	1,884,630	376,125,921

Code	No. of Lot of Lo	om	Volarse	1	Price		******	Amount
Sames	WORK INSTES	I		Material	Labor	Machine shift	I DI BI PRICE	Areaset
AF 12315	Concrete with slone 1x2 M300 for transport bridges	TmB	306.60	1,197 160	710.974	88.068	1,589,653	784 788,800
AF. (2913	Concrete with slone 1x2 M200 for transport bridges	TmS	30 90	1,034,028	710.974	96,058	2,351,852	72 437,029
AF (2025	Concrete for pulling system of rock valves 1x2 M300	TeS	56.60	1.345.379	962 610	96.058	3 068 982	385,773,877
AF 12225	Concrete for pulling system of rock values 1x2 M200	1 mā	10,00	1,182,245	962,610	96,058	2,861.18#	28,611,843
AR 11215	Stone concrete 1x2 of backyard M200	1 mB	101.00	1,034,026	302:115	40.857	1,756,871	171,443,924
AF 11215	Stone concrete 1x2 of transition section M200	1 māi	46,10	1,034,026	302,115	40,857	1,756,871	80,991,732
AF 15915	stone concrete 1x2 thm ldt min M200	1 mô.	438,69	1/034,026	802,565	58.118	2,162,778	945,788,094
AF./1212	Concrete of stone slab 1x2 M150	1 m3	98 ND	950,508	302,11fi	40.857	1,860,484	181,912,483
AF.11121	Crushed stone concrete 446 inning, B =250km	1 m3	65 30	840.627	217.378	40,684	1,402,321	91,571,584
AK AH124	Lining morter grade M75 with thickness of 3 cm.	1/m2	1 633 33	22,423	22,811	508	58 323	153,583,817
AF 92111	Different types of metal formwork	1027	42.54	5,718,284	8.237.021	511,011	18,481,427	785,358,344
AF.61525	Fabrication of different reinforcement	fbr	157.17	17,399,809	2,078,999	397,281	25,345,802	4,237,080,719
AL 414 10	fabrication of couplings by PVC plates	1 mil	35,00	292,821	473,444		978,060	34,182,102
AL 251 12	Erection of rubber bridge bearing	piece	30,00	578,465	753,206		1,696,258	50,887,688
AL 16122	Spreading geotextile fabric fabric on land	100.m2	68.48	3,350,688	215.689		4,542,818	311,092,042
E 660	Erection of stone gamons (purchased gamons)	102	813.00	489,789	323.233	1	1.035,820	634,835,182
GTF1	Gabian wire mesh	102	5,414.00	45,000			57 321	310,333,538
AE 11114	Ashlar M105	1 mG	21.40	875, 198	381,449		1,800,708	34,255,102
AK 98MD	Making sand filter beds	100 m3	26.49	24,318,842	1,081,354	1,078 199	33,800,913	895,388,179
AK.98131	Making filter beis for crushed-stonel s.1	100 m3	2.99	52,749,075	1,584.267	1,211,818	70,837,518	211,449,998
AC.11122	Driving sheeting piles with Lpile = 4.5m. Soil grade II	100 m	1,100,52	570,810	561,190	Darman .	1,441,981	1,586,873,664
AD.21228	Construction of road surface with aggregate d=20cm	100 m2	9,00	9,335,252	800.600	1,879,775	15,182,325	135,640,929
AB.66113	Sand embankment for road bases by compressors 97 K=0.95	100 mB	34.50	9,307,143	278.325	911.370	13,432,074	463,406,54
AB,84112	Embankment for road bases by compressors PT K=0.9	100 m9	33,30	10	320.530	799,448	1,482,895	49,371,730
AB:24132	Digging soil for embankment by excavators =1.15m2	100-13	36.63		119,741	863,949	1,300_104	41,801,797
	Soil grade 🛙							
AB.41/122	Transporting soil by dump trucks	100+173	36,63			1,026,736	1,379.779	30,541,251
1	Distance = 300m, cuch 7T, Soil grade II					·		-
	* Wing wall:	- 1 1	1			I		
AB.68143	Sand entitankment by Vibratory Rammers K=0.95	100 m3	4,89	9,307,143	882,400	899,459	13,919,251	67,856,496
AB,68113	Sand entitankment by compressors 9T K=0,95	100 m3	11.38	9,307,143	278.328	911,370	15,432,074	152,769,838
AB.65130	Soil-embankment for wing-wall by vibratory rammers K=0.95	100 mB	14,63		2,190,753	1,420,053	4,696,397	66,724,369
AB,84113	Soil embankment for wing-wall by compressor 97 K=0.95	100 m3/	55,13		320,538	1.119,227	1,912,389	105,419,350
AB.24121	Digging sou for endomkment by escavarurs ==).Eu3	100 m3	53,63		92,109	705.025	1.084.774	57 098 480
	Soil grade I	-						
AB.41111	Transporting soil by dump muchs	100 #3	53 63			356,671	1,295,621	68,941,443
1	Distance = 300m, muck ST, Sail grade 1						2	(L)
1				· · · · · · · · · · · · · · · · · · ·				

Code	and the second se	war	Volarse	1977 - Samana S	Price		é.	Antonia
Nomis	Work Iterits	1		Material	Laftor	Machine shift	Total price	Amount
1	* Signs of waterway transport	sistem	1.00				100,000,000	100,000,000
	* Protective fence for works	a istem	1,00				250,000.000	250,000,000
1.	* storage area, electricity & water apply	distant	1.00				250,000,000	250,000,000
	* Mechanics							
1	Valve rate (5,1x5,5)m - Block steel	3ét	1.00					
	Valve gate (5.1 g5.1 m - Stainless med	085	1 00					
11								
	13- Open sluise Bc=3m (01 sluice):						10	18 100 519 875
	* Site area	1						
AA.11111	Site Clearance	100 m2/	390 00		175.006		222.921	\$4.7ND,068
AA.12111	Cutting down trees in flat ground Dtree = 10cm	tree	1,000.00	1	22,106		38,158	19 158,409
AA.13111	Digging tree stumps Dtree = 10km	free	1,000 00	- · · · · · · · · · · · · · · · · · · ·	35,843	N	48,331	48 930 787
AA.13211	Digging bush of water peconut Dbush =30cm	tree	400 00		37.635		124.387	49,746,608
AB 1224	Dinh Trung Shuce	1.000	802,00	-	179,218		190,070	152 435 354
A5 H212	Soil Excavation for embankment - Soil Grade II	1.m5	856,14		114,215		145,485	124,846,987
AS:22121	Diszung and transporting organic soil in a distance = 50m	100 m3	9:39			870,482	901.000	8,460,385
1	Bulldozer = 110CV, Soil Grade I.	1 1						
AB.13312	Embankment in combination with service roads, K=0.9	1:43	734.00		132 656		\68.351	124 009 914
1	Using soil from the excavated pit for embandment			-				-
AB:84112	Embankment in combination with service roads, compressor ST E=0.5	100/m3	22.02		300 516	799:448	1.482.835	32,847,812
AB 24122	Disging soil for embankment by excavators and for	100/03	24.92	-	119,741	838,404	1,279,213	33 986 097
	Soil erade II							
AB:Att12	Transporting soil by dump trucks	100 /m3	24.22	-		1,196.557	1,607,992	39,948,775
	Distance = 300m, track 5T, Soil made I	1						34
AB.11312	manual embankment of service roads E=0.9	Em I	245.00		132,635		108.951	41,392,955
1	Using soil from the excavated pit for embankment	1 1					24	
AB.84112	Embankment of service roads, compressor 91 H=0.9	100 m31	7.34		300 538	799.448	1.482.635	10 882 537
AB 24122	Digging soil for embankment by expyoners =1 \$03	100 m3	3.07	-	(19.74)	838,404	1.279.213	10.329.386
	Soil graide II						1.1	
AB 41112	Transporting soil by domin muchs	100 m3	8.07		-	1 198 557	1.607.992	12,860,905
	Distance on 300m mack ST Sail made II						the second second	
AE 13111	Manual embandment of site ground	1/m5	450.00		100.462		131.408	59.132.755
1-1-1-11	Using soil from the excavated uit for embankment	1			102.10-			
AS:62111	Embankment of size ground by compressor 9 Ton K=0.85	100im3	13.50	-	138 224	492.038	834 358	11.270.687
AS:24122	Dizemz soil for embandment by excavators =0.8m3	100 m5	14.85	-	+19.745	838 404	1 279 243	15 996 5(3)
	Soilendel	1			11-04-04	Test let 1		
AB 41112	Transporting soil by durin trucks	1001173	14.86			1.198.557	1 607 392	13 878 877
	Distance = 300m, much 5T Sail grade II	1						

Cade	Mine Direct	Unit	Valerse		Price		T-1.1	Acres 14
Norms	With LETS	1.00		Material	Labor	Machine shift	Total price	Ampent
AB. 11512	Dissens drimage ditches B =Sm, H =im, Soil grade II	tms	139.00		167.638		2/1.595	54.034.871
AD.21228	Embankment with aggregate with thackness of 20 cm for service roads	100 m2	27.35	9,335,252	800,600	1.879.775	15,182,325	#15.238.597
88.11208	Installation of concrete pipes DS00mm	100m	0.50	54,564,409	17.798.591	8,550,545	100.978.232	50,489,116
AE 22122	Land levelling as the previous condition of site ground, distance =50m	100 mS	15.80			825 882	1,109,591	18,643,866
	Bulldoper := 110CV, Soil Grade II						-	*
GTT	Material looding and unioading terminals	piece	1.80	25,000,000			31.844.758	31 844,758
-	Pile driving for ground treatment	-	- T.	*				*
-	+ Pile casting varia			*		1	- 1	
AR 20120	Grading the pile casting yard by buildagers = 110CV, spil grade II.	100 mm	0.90			E75.682	1.109.591	048 630
AK 41111	Morta: with statis 75 for troweline storted 1 rm	ImT	300.00	15.802	14.634	606	30 583	11,874 860
AF.71121	stone-lined constrets 466 M100, with > 15cm	TimB	15.00	243 827	217,378	40,664	1,402,221	21.034,618
_	+ Sciffeld:							
	Soil anthonymont for craffield by communer 0 T V =1 25	00.00	7194		198 324	457 (758	234 266	679 067
AR 04 100	Dissue soil for embankment by exclusion (=0.8m)	700 mS	0.89		119,745	838 404	9 279 213	-1 122 745
	Soil gade II	100-10			1001031			
AB.41112	Transporturg soil by dump guicks	100 m5	0.89	1		1.196.557	1.807.992	1,423,877
	Distance = 300m muck 5T. Soil ende II				1 B B		÷	
AB 00111	Sand embaukment for scaffold	100 m5	0.81	9.307 143	276.328	518.547	12,904 179	10,387,864
AD 24228	Aggregate of scaffold with dischness of 10cm	100.02	181	9,335,252	800,600	1,879,775	15, 182, 225	24,443,544
AD 21223	Aggregate of scaffold with thickness of 10cm	100 m2	181	4,867,828	414,DEB	897,399	7 679 177	12,363,636
-	+ Fabricatian	-					-	
AG (1115	Production of pre-casted concrete components	1.m3	45.82	1.479.811	337,117	61.930	2,017.907	92,460,487
	piles, column, concrete monar with crushed stone Ind M300						-	~
AG:13121	Pile ranforcement	tpr	11,45	47,399,809	1.561,746	375 695	24,657,921	282,333,194
AG.31121	Fabrication election and dismantling of pile farmwork	100 m2	2.62	834,723	5.289.871		7.800.475	20.423.088
AL 13151	Production of pills splices	ton	4.58	18.305.814	5,896,765	1.024 542	31,951,063	148 115 961
A184151	Erection of pile splice	lan	4.92	411.280	1,786,174	279.828	3,175,142	14,542,149
ALMIEN .	Production of driver pile of steel profiles	lon	2.40	19,070,916	2,044,418	1.695.359	29, 174,810	7/10/9 543
	+ Dile driving				-			-
AG 41141*	Pile transport	section 1	00.05			309.769	416,282	28.722,469
ACI.15223/	Pilot Pile Draving on ground, hammer =2.57	-100 m	1.50		1,823,287	12.426.255	19.110.606	28.665.909
1.	Soil ande IL Pile L-24m F=35x35cm (K=15)	-			-	1		
AC.15223	Driving Remforced negative piles on ground, hammer #157	tao m	02.5		1,262,178	8,284,157	12,740,404	37.900.768
	Sail grada II. Dila I blan En3fm35cm			1				

Calde	and the second se	UNIC	Valure	t	Price		+	
Norms	Wark liens	1.0		Material	Labor	Machine shift	f stal price	Ament
AC ISES	Driving reinferred negative plife on ground hännner =1.51	100 m	0.46	1	1 325,297	5.628 865	13.577.424	8,152,615
· · · · ·	Soil made II. File L. O4m F=35y35cm (K=1.05)					1		× .
AC 19840	Dismantime driving rules	100 m	0.46		572.437	4 695 928	7,039,782	3 238,500
AA.21241	Pile hand breaking	1 m2	1,41		1.096.414		1,398,150	5,972,801
GTT	using bulldozer III0 cv	shift	30.00	1		888,397	1,193.571	35.818, 137
		11111		-			-	*
	*Foundation pit escavation:	1.1.1.1.1.1		1				
A8.22122	Grading of service roads for foundation pit and storage yard	100 m3	5.40		÷	825,662	1,109,591	5,99%,792
	L=50m, hulldoaer ==110cv. Sml grade II							× .
AD 21228	Eminathment by aggregate for service mad with the thickness of 30 cm	100 m2	23.75	9,335.252	800,600	1,879,775	15,482,325	380,580,228
AE 66#13	Soil Embankment of service muds K=0.95	100 mS.	5.85	9,307 142	276,328	911,870	13.432.074	78.577.631
AB.25412	Soil from foundation excernation is dumped directly on mucho, soil grade (100 mS.	44.06		201.957	960.929	1,825.021	71,598,410
AB.25111	Foundation excavation on the weak and soft soil	100 mS.	121:16		1,934,279	1.709.650	4.781.378	576.888.339
1.000	By two escavators						1 A.C.4.1	
AB. #1382	Manual foundation excavation with the width = 3m	En l	2,772.00		141.374		187.725	520.360.341
	Depth > 5m. Soil grade II			1				
AE 24121	Soll taken on trucks by excavator <=0.8m3	100 m3	27.72		92,109	705.025	1.064.774	29.515.822
AE-41111	Transporting sail by dump muchs	100 m3	192.94			536.671	1,285 611	248 047 778
	Distance = 300m much 57 Soll grade I			1				× .
A5.11111	Excavating thick sludge, transport in 30 m	1:03	2.491.00		173,584		(220.575	549.451.401
A8.11121	Transporting in 70 m more	1 mã	2.491,00	1	(9.053		22.996	57,283,332
AB 34110	Grading the soil in the dumping area by a bulldozer 110 VN	100m3	217.60	1		198,835	286,534	58.051.017
AB 24122	Dissung for removal of service road & scaffold by excavator =	100 m3	11.15	1	119,741	838,404	1,279,213	14.278.017
19/04/94	0.0m3, Soil zrade I			*	Pros. /		-	
AB.41112	Transporting soil by diano trucka	100 mE	11,16	*	_	1,196,557	807.992	17.985.187
	Distance = 300m, much 51, Soll grade II						-	
AE 11512	Digging drainage duch at the bottom B =3m, H =1m, and grade I	162	186.00		167,638	-	211 535	39.717.515
AR 98110	Construct a stope layer 2x4 as a huffer for the dramage duches	1:02	138.00	572,444	318,499	1	1,134,674	211.086.646
AL 18122	Spreading segrestile fabric fabric	100 ml	6.56	3,350,688	215 669		4.542.818	29 800.873
GTT	Pumping water into foundation pit 20CV	shift	00.002			184,109	.247.415	49,402,932
								÷
	*Cofferiant at the downstream & upstream:				1 - I			3e1
	+Preparation:	-						
AB 22122	Grading the demarcation of the soil takes yard	100 m5	1.85			875,662	1,109,591	1 062 744
	1 == 50m, buildooer == 110ev, Sml grade II		1.00					-
AD 21228	Emilaritument with aggregate with thickness of 20 cm for democration	100 m2	7.30	9,365,981	803,800	1.875 775	15 182 225	34 519 548
	-Endenkment of coffention:							
AB 83111	Embankment of cofferdam by compressors 9T, dt =1.550 mis-	100 m2	47.02	-	272,644	549.157	1.085.313	51 958,990

Cude	Mind there	UNIE	Vélene		Prite	-	Trate	Barcharte
Rome	Work lights	1.1		Material	Lalor	Modine shift	fotal price	Amount
1	soil taken from the soil ground			1		17 10 101		
AB 23122	Digging soil for embankment by excavators (=0.1mf	100 m2	52.05	1	119,741	838 404	1,279,213	76.335.595
1	Sail sinde II							
AE #1112	Transporting soil by dump works	100 mE	32.05			1,195 \$27	1.607.002	83 689, 183
11.	Distance = 300m much iT Soll grade II	122					÷ .	
AE 68111	Sand embanisment for anti-subsidence	100 mE	2.00	9.307.141	178,328	518,547	12,904,179	25 608.357
AD 1 COS	Emiankment with aggregate with thickness of 20 cm will dip-	100.652	3.00	9,345,050	890,600	1,879,775	15,187,995	45.546.978
AB-81212	Dausging cofferdam by encovator backet I fim	100m3	38,40		\$22,803	2,711,684	A,885.278	147,512,051
			-	-		-		-
	+Sharce connecting path:						*	
AB 22121	Digging and transporting organic soil in a distance = 50m	100 m3	13.60	1		670.482	901.000	2,162,494
	Bulldozer = 110CV, Soil Grade I						~	-
AB.64112	Embankment for road bases by compressors 9T E=0.6	400 m2	105.00	1	320,538	799,448	1,462,635	148.282.453
12	soil taken from the storage yard			-			*	
AB 14170	Digging soil for unbankment by excavalors <=0.1m3	100.003	110.00	P	119,741	638 404	1.179.213	140 711 420
1	Soll grade II					1		
AE 41412	Transporting soil by dump gucks	100 mB	110.00	h		1,910,469	2.587 382	通机钢
1.00	Distance =1000m, truck 37,5all grade II		· · · · · · · · · · · · · · · · · · ·			1		
AD.2*225	Embankment with aggregate with thickness of 20 cm.	100 m2	37,60	9.335,252	630,600	1.079:775	15.102.325	569.337.199
H =	and the set of a second set of the second	11	a contract and		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.000		10 million 1944
1	*Server construction:							197
AF HOS	Concrete of bottom slabs with stone 1x2 MH00 B>218cm	164	58.98	1,310,542	382,908	40,857	2,186,530	127,649,633
AF. 12145	Concrete of edge posts, Thirkness > 45cm	105	156.58	1,358,700	788,884	96.058	2.864,830	448,543,787
	Height = 16 m, concrete montar with stone 1x2 MH00	T				Tail	×	
AF. 12145	Stone concrete 1x2 M300 for energy disappters toward the set	1658	90.20	1,358,700	798,884	96.058	2.864.630	258 389.627
AF.12145	Stone concrete 1x2 M300 for energy disapaters toward the paddy fields	ាត 👘	90.20	1,358,700	788,887	96.058	2,864,630	258,989,627
AF.10315	Concrete with stone 1x2 M300 for transport bridges	1m2	20.51	1,197.160	710,974	98.058	2,659,650	52,498,415
AF. 12313	Concrete with stone 1x2 M200 for transport bridges	1m2	0,38	1,034,028	710,974	98.058	2,351.852	546,667
AF: 12225	Concrete for pulling system of rock value: 1x2 M300	1m2	10.90	1,345,379	982,610	98.058	3.068.982	33,451,908
AF. (2223	Concrete for pulling system of rock values 1x2 M100	1m2	0.79	1,182,245	962,610	98,059	2,881,184	2,260,356
AF.11213	Stone concrete 1x2 of hockyard M200	765	71.颇	1.034.026	302, MB	40.857	1.756.871	128,141,304
AF.11213	Stone concrete 1x2 of transition section M100	1.65	37 70	1.034.026	302 116	40,857	1.756.871	69,254,019
AF.15313	stone concrete 1x2 tim lat mit M200	165	343.90	1,034.026	602,365	SE 118	2.162.778	754 520 480
AF.11212	Concrete of stone claim 2 n2 M150	1/62	30.00	950.506	302,116	40,657	1.650,494	99 028 029
AF.11121	Crushed stane concrete 4a8 lining B 150cm	1/63	42,40	840.627	217 378	40,864	1,402,221	59,451,412
AK.41124	Lining motter grade M75 with thickness of 3 cm	1 m2	1.090.00	22,423	22.811	806	58,323	110.250.410
AF.02111	Different types of metal formwork	100m2	27.66	5,716,264	8,237,901	EP1.011	8,481,427	436.760.445

Cude	Care and Co	Uvit	Válene		Price	-	trad (Sel	in the second second
Norras	Werk Kens	1111	1.1	Material	Labor	Mashine shift	fetal price	Amont
AF STREET	Fabrication of different remainstement	top	65.06	17.538.808	1 078 999	397,361	25.345 802	1 343 997 651
AL 41410	fabrication of couplings by PVC plates	1 00	35.00	202.621	473,444		978.060	34, 182, 102
AL 25112	Erection of rubber bridge bearing	piece	30.00	578,455	753,208		1,698,256	511.887.888
AL 10122	Spreading geotestile fabric fabric on land	100 m2	68.97	3,350,688	215,689		4,542,816	313,338,193
035.3	Erection of stone sabions (purchased sabions)	me	844.40	469,789	323,293		1,025,620	067,353,656
GTT1.	Gabton wire mesh	1112	5.692.00	45,000	-		57.321	326,288,655
AK 96110	Making sand filter beas	100 ma	1,42	24,316,842	1,081,354	1.078,199	33,800,913	48,335,305
AX.98131	Making filter beds for crushed-stonel x2	100.m3	2.86	52,749,075	1,584,287	1,211,618	70,897,516	102,878,647
AC 11122	Driving sheeting piles with Lpile = 4,5m. Soli grade II	400 m	988.61	570.810	561,190		1,441,931	1.425.400.961
AD 2/329	Construction of road surface with aggregate 8=30cm	100 m2	9.00	9,335,252	800,600	1,879,775	15 182 825	138 640.928
AE 88113	Sand embankment for mad bases by compressors 97 10=0,95	100.m3	34.50	9,307 143	176,328	911,570	13,422,074	483,408,541
AE 64112	Embankment for road bases by compressors 9T K=0.9	100 m3	33,90		320,538	799,448	1,402,655	49,371,730
AB 24132	Digging soil for embankment by excavators =1.25m3	100 m3	38.83		119,749	853.949	1.300,104	47,622,797
1 1000	Soil ande II							
AB.41122	Transporting soil by dump gucks	900 m2	36.62			1.028.735	1.379.778	50.541.251
	Distance = 300m quck 7T,5où grade II							
	* Wing wall:						×	
AE (66143	Sand embankment by Vibratery Rammers E=0.95	100 mB	4.88	9,307,142	862,400	699.439	13.919.331	87.9%4%
AE 68113	Sand embankment by compressors 9T K=195	100.75	11.98	9.307 142	278,328	\$11.570	13:432:074	152 789 838
AE (65130	Soil embankment for wing-wall by ultranery rangers E=0.95	100.005	14.83		1 190 753	1.420.053	4.698.897	88,735,488
AB.64113	Soil embankment for wing-wall by compressot 97 K=0.95	100 m5	34,12	1	\$20,538	1,119,227	1,942,369	65,359,597
AB.24121	Digging soil for embankment by excavators ==0.im?	100 m5	53.63	1	92,109	705,025	1,084.774	57,098,490
	Soil gade I			1			× .	
A8.41111	Transporting soil by dump trucks	100 m5	53.63	1		956.871	1.285.621	68,941,473
1	Distance = 300m, truck 5T, Soil grade I			1			~	
1.2.2	* Signs of writerway transport	system	1.60	1			100.000 000	100.000.000
1	* Protective fence for works	system	1.60				250.000 000	250.000.000
1	* sourage area, electricity & water supply	System 1	1.00	-			250.000.000	250.000.000
1	* Mechanics							
F	Valve gate (3,5x5,5)m+TB - Black steel	381	1.00	10.0	1			L
1	Valve gate (3,5x5,5)m+TB - Stainless seed	381	1.00	1	1.1.1.1.1			
1				1				
	16-System of small gates (culvert boxes) on the dynast							1,474,752,055,456
AA 11111	Site Clearance	100 ml	14.343.43		175,008		222,021	3,197,454,705
AB.25412	Soil digging by excavators = 0.8mS	100 m3	7,517.59		351.957	960.929	1,625,021	12,216,334,217
AB.41112	Transporting soil by dump truck:	100 m3	7.517.50	× 1	-	195.557	1,607 992	12,068,217,407
1	Distance == 300m, truck 5T, Soil grade ii						~	× 1

Code	Wast lines	918	Volume		Price		********	Amount
Nemes	WORK DESIES	-		Material	Labor	Machine shift	total price	14140 261
AB.11382	Manual will digging with the width 3m	1:48	322.182.30	-	147 374	-	187,723	80-481 DA9-400
	Depth≥3m. Soil gmide I					1.21		
AB:84112	Dip filt, compressor 97 E=0.9	100/03	10.077.29		300 518	799.448	1.482.835	14,940,939,573
AB 24122	Dizzing soil for embankment by excavators =0.0m3	100 m3	11.085.02		#19,741	838,404	1,279,243	14,180,101,765
	Soil grade II	1 1	1		~		•	×
AE Att 12	Transporting soil by dump trucks	100 m3	11.085.02		~	1,196.557	1,607,992	17,824,620,178
11. · · · · ·	Distance = 300m, track 57, Soil gade II	1 1			100			
AB 13HE	Manual soil embankment K=0.9	162	431,683,90	1	123,425		- Carl	10-10
AD.21238	Embankment with aggregate with thickness of 30 cm	100 mZ	1 450 90	9,335,252	600,600	1,879,775	15,182,325	22,179,868,023
AD.21225	Aggregate environment with a thickness of 1 firm	100 112	1 450 90	4,667,628	414.089	897.599	7,679.277	11,218,868,012
AK38131	Aggregate stone	100 #3	125 99	40.259.407	1:584.267	1,211,818	54,928,298	6,917,120,612
AF 12145	stone concrete 1x2 M300	1 mã	34,477.00	1,358,700	788.884	96.058	2,864.830	95,763,848,971
AF 12225	stone concrete 1x2 M200	1 m6	53.088.00	1.182.245	962,610	96.058	2,861 184	151,894,551,224
AF 11242	stone concrete 1x2 M150	1/m3	15.835.00	950,508	302,716	40.857	1,650,484	31,091,814,174
AF.11242	stone CT contrete 1x2 M150	1100	8.995.00	950.508	302, #16	40.857	1.650.484	14,747.072.919
AK 41124	Lining mortar grade M75 with thickness of 3 cm	1 m2	314,586,67	22,423	22.64	508	58 323	16,348,481,780
AF 11121	Cencrete M100	1 #8	2.857.00	840,627	217.378	40,884	1.402.321	4,006,431,224
AE 11114	Ashlar MI00	1.68	45.642.00	875.198	381,449	- 1	1,600,708	73,059,409,091
AK 98131	crushed stone 1%2	1001173	224.90	52,749,075	1,584.267	1,211,818	70,837,518	15,931,357,419
AK 96110	Making sand filter beds	100+53	105 73	24.318.842	1.081:154	1.078.199	33,800,913	5.676.863.291
AB.68113	Sand embankment by commeteor: 9T K=0.95	100.m3	5,133,64	9.307.143	278.126	911.370	13,432,074	68:955.430.541
AF.82111	Different types of metal formwork	100m2	1,469,85	5,716,264	8.237.921	511,011	15,461,427	27,135,528,792
AF 64522	Fabrication of different remforcement	tor	5,111.00	17.399.809	2.078.000	397.381	25,345,802	129,542,391,890
AL-41410	fabrication of couplings by PVC plates	1 m	4,264,00	292,821	473,444	-	060,879	4,161,920,060
AL 18122	Spreading geotexule fabric fabric on land	100 mZ	5.022.08	8,350,688	215 689		4.542.918	22,814,385,527
GTT1	Gabian wire mesh	102	966 692 00	45,000	-		57 321	22,165,403,980
AC.11122	Driving sheeting piles with Lpile = 4 fun Suil grade II	100 m	107 666 31	570 BND	581 190	_	1441331	155:584.891.383
GTT	Stainless steel runes D60	10	2.023.00	275.000			380,292	708 841,408
GЛ	Mechanic equipments - Steel CT3	1.000	1.175.50				45,000,000	52,942,500,000
1	18-System of main channels and channels of grade 1							1,214,841,559,517
AA TITT	Site Clasmance	100+72	76,860,00		175 006		222 921	17,534,982,019
AB 71228	Dredging by a dredger with capacity ==2000CV chilm	100/#3	=36,705,58		158.224	5,960,341	8,197,909	1,120,699,908,873
AB.83122	Dredging depth (=Sm, height of the discharging pipe (=im L ==100m)	100m3	12 312 00		272.641	689-488	1 273 958	15 683 7 48 320
1	Soil embakment for settling tank by compactors 167	-						
A5 21430	Soil with density =1.15T/m3	100m3	12,545,20	-	119.741	998,855	1.414 177	19,152 481 100
A5 20121	Soil digging by excavators 1.25m3 EC2	100im3	41.011.87	-		870 487	901,000	35,951,496,385
	Coil dinging for asslving channel in the dirtance of 50m							

Code	the second s	210	Volume		Price		Trailing	Married .
NOTES	WOR DEALS		· · · · · ·	Material	Labor	Machine thift	Lotat buce	Ancunt
AC. 11222	Buildozer = 110CV, Soil Grade I	100m	1,482,40	570,810	581 190		1,441,951	13,550,610,358
AL 16121	Sheeing piles D5-8cm, 1=4.5m	100m2	205.20	1.350,688	215,669		4,542,818	932,185,949
GTT	asotextile fabric	m£	20,520,00	5,000			6,369	130,890,888
GTT	Bambuc screen	(lig)	205.20	21,134			38,309	5 523,913
1	and with			- 21.21				

VI.3 DRAWINGS

Drw. No.	Drawing Name	Remarks
1.Ben Tre F	Province	
BT- 1	An Hoa Sluice General Plan	
BT- 2	An Hoa Sluice Profile and Front Elevation	
BT- 3	Ben Tre Sluice General Plan	
BT- 4	Ben Tre Sluice Profile and Front Elevation	
BT- 5	Tan Phu Sluice General Plan	
BT- 6	Tan Phu Sluice Profile and Front Elevation	
BT- 7	Ben Ro Sluice General Plan	
BT- 8	Ben Ro Sluice Profile and Front Elevation	
BT- 9	General Plan of Sluice(Total Gate Width B=20m)	
BT- 10	Longitudinal Profile and Front Elevation of Sluice(Total Gate Width B=20m)	
BT- 11	General Plan of Sluice(Total Gate Width B=15m)	
BT- 12	Longitudinal Profile and Front Elevation of Sluice(Total Gate Width B=15m)	
BT- 13	General Plan of Sluice(Total Gate Width B=10m)	
BT- 14	Longitudinal Profile and Front Elevation of Sluice(Total Gate Width B=10m)	4.4
BT- 15	General Plan of Sluice(Total Gate Width B=7.5m)	
BT- 16	Longitudinal Profile and Front Elevation of Sluice(Total Gate Width B≍7.5m)	
BT- 17	General Plan of Sluice(Total Gate Width B=5m)	
BT- 18	Longitudinal Profile and Front Elevation of Sluice(Total Gate Width B=5m)	
BT- 19	General Plan of Sluice(Total Gate Width B=3m)	
BT- 20	Longitudinal Profile and Front Elevation of Sluice(Total Gate Width B=3m)	
BT- 21	Plan and Sections of Box Culvert(Gate Width B=3m)	
BT- 22	Plan and Sections of Box Culvert(Gate Width B=2m)	
BT- 23	Plan and Sections of Box Culveri(Gate Width B=1.5m)	
BT- 24	General View of Swing Gate	
2. Tra Vinh	Province	
TV- 1	Bong Bot Sluice General Plan	
TV- 2	Bong Bot Sluice Profile and Front Elevation	
TV- 3	Tan Dinh Sluice General Plan	
TV- 4	Tan Dinh Sluice Profile and Front Elevation	
TV- 5	Vung Liem Sluice General Plan	
TV- 6	Vung Liem Sluice Profile and Front Elevation	







VI-3-2



JICA

VI-3-3





Vietnam







VI-3-6



JICA

VI-3-7





SIWRP

VI-3-8



VI-3-9

SIWRP



Vietnam

JICA

VI-3-10



JICA

VI-3-11



Vietnam

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SIWRP



JICA

VI-3-13



JICA

Vietnam



VI-3-15



Vietnam



JICA

VI-3-17

SIWRP



VI-3-18



VI-3-19





VI-3-21

SIWRP

Vietnam











VI-3-24



VI-3-25

SIWRP



VI-3-26



VI-3-27

SIWRP



VI-3-28



VI-3-29

SIWRP



VI-3-30



VI-3-31

SIWRP

VI.4 FISHPASS

Fish-pass

In order to mitigate the influence against habitat environment of fish due to construction of sluices as much as possible, it is recommended to consider fish-pass during detail design stage. Necessary information and considerations for the study are described below.

1)Selection of target fish

On the selection of fish to be considered for design, several data for fishes which migrate around the sluice construction site should be collected. Those are the species of fish, migration season and its purpose, length and height of fishes, amount of fishes and so on. Moreover, the existence of major fishes for fishery also should be investigated.

2)Water level condition

The fluctuation range of water level in upstream and downstream of the sluice should be clarified. This is the essential factor for considering structural type or installation position of the fish-pass that allows fishes to migrate freely through the sluice with keeping protection of saline intrusion.

3)Structural type of the fish-pass

Fish-pass should be satisfied following requirements.

- -Fishes can gather around the fish-pass easily and pass through it safely and smoothly.
- -Structure of it is simple and has solidity, and what is more, easy to operate and maintain.

Following figure shows one example of fish-pass which is consisted of a part of main gate and opens and closes automatically by float.



However, this type has some defectives to be improved. In case that inside water level is so high as to open the fish gate, when outside water level rises higher than that of inside, salt water can possibly intrude into the inside area. And if the fish-pass is too small for the main gate which has commonly 10m width and 7 to 8m height, it is difficult for fishes to find the position of the tiny path in the water. Moreover, this passage may be blocked up or malfunctioned by floating debris or waterweed. Therefore, practicability of installing an appropriate fish-pass and its detail structure should be examined deeply including measures for aforementioned problems.