

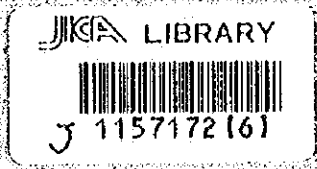
ROYAL Government of Laos, estimate of construction cost on Vientiane airport extension project

ROYAL GOVERNMENT OF LAOS

ESTIMATE OF CONSTRUCTION COST  
ON  
VIENTIANE AIRPORT EXTENSION PROJECT-II

JUNE 1971

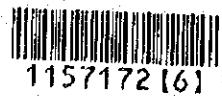
Nippon Koei Co., Ltd.  
Consulting Engineers  
Tokyo



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Estimate of Construction Cost

Item No.	Foreign Currency (U.S.S.)	Local Currency (KP)	Total (U.S.S.)	Remarks
A	325.880	111.888.840	549.657.68	2-Runway Exit Taxiway & 1-Extended Parallel Taxiway
B	146.477	59.702.980	265.882.96	Expanded Apron & Pallet Improvement
C	31.385	16.014.210	63.413.42	Drainage Concrete Culvert & Earth Open Ditch
D	154.500	43.532.490	241,546.98	Electrical Installations
E	2.658	2,070,480	6.798.96	Miscellaneous Works
F	216.400	134.300.000	485.000.00	Construction Plant and Equipment
	<u>877.300</u>	<u>367,500.000</u>	<u>1.612.300.00</u>	<u>Total</u>
G	116.700	16.500.000	149,700.00	Engineering Service
H	6.000	16.000.000	38,000.00	Contingency & Reserves
	<u>1,000.000</u>	<u>400,000.000</u>	<u>1,800,000.00</u>	<u>Grand Total</u>



百樂力有限公司  
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Breakdown of Construction Cost

Item No.	Work	Unit	Quantity	Foreign Currency (\$)		Local Currency (Rp)		Remarks
				Unit Price	Amount	Unit Price	Amount	
A	2-Runway Exit Taxiway & 1-Extended Parallel Taxiway							
A-1	Stripping of top soil (by dump truck)	m <sup>3</sup>	14,100	0.10	1,410.-	159.30	2,245,130.-	
A-2	Stripping of top soil (by carry-all)	m <sup>3</sup>	12,500	0.12	1,500.-	179.10	2,238,750.-	
A-3	Cutting and filling	m <sup>3</sup>	1,600	0.06	96.-	99.40	159,040.-	
A-4	Embankment (borrowing & subgrading)	m <sup>3</sup>	54,600	0.20	10,920.-	303.00	16,543,800.-	
A-5	Base course, 30 cm thickness (borrowing & grading)	m <sup>3</sup>	11,000	0.33	3,630.-	517.70	5,694,700.-	
A-6	Concrete pavement, 28 cm thickness	m <sup>3</sup>	12,700	21.80	276,860.-	5,907.10	75,020,170.-	
A-7	Shoulder sodding	m <sup>2</sup>	23,500	0.12	2,820.-	187.50	4,406,250.-	
A-8	Graded area, seeding	m <sup>2</sup>	37,200	0.77	28,644.-	150.00	5,580,000.-	
	Sub-total				325,880.-		111,888,840.-	

Breakdown of Construction Cost

Item No.	Work	Unit	Quantity	Foreign Currency (\$)		Local Currency (Kp)		Remarks
				Unit Price	Amount	Unit Price	Amount	
B	Extended Apron & Fillet Improvement.							
B-1	Stripping of top soil (by dump truck)	m <sup>3</sup>	6,100	0.10	610.-	159.30	971,733.-	
B-2	Removal of soft clay with un-suitable material	m <sup>3</sup>	13,800	0.15	2,070.-	238.30	3,288,540.-	
B-3	Replacement with sand 50 cm thickness	m <sup>3</sup>	5,700	1.05	5,985.-	1,637.10	9,331,470.-	
B-4	Cutting & filling	m <sup>3</sup>	900	0.06	54.-	99.40	89,460.-	
B-5	Embankment (borrowing & sub-grading)	m <sup>3</sup>	16,800	0.22	3,696.-	349.00	5,863,200.-	
B-6	Base course, 30 cm thickness (borrowing & grading)	m <sup>3</sup>	6,900	0.36	2,484.-	560.30	3,866,070.-	
B-7	Concrete pavement, 28 cm thickness	m <sup>3</sup>	4,600	21.90	100,740.-	5,888.20	27,085,720.-	
B-8	Concrete pavement, 38 cm thickness	m <sup>3</sup>	130	20.80	2,704.-	6,598.-	857,740.-	
B-9	Concrete pavement, 20 cm thickness	m <sup>3</sup>	840	24.00	20,160.-	6,335.-	5,321,400.-	
B-10	Concrete pavement, 35 cm thickness	m <sup>3</sup>	230	24.10	5,543.-	7,180.-	1,651,400.-	
B-11	Shoulder, sodding	m <sup>2</sup>	5,500	0.12	660.-	187.50	1,031,250.-	



Breakdown of Construction Cost

Item No.	Work	Unit	Quantity	Foreign Currency (\$)		Local Currency (Ks)		Remarks
				Unit Price	Amount	Unit Price	Amount	
C	Drainage, Concrete Culvert & Earth Open Ditch							
C-1	Unclassified excavation & rejection	m <sup>3</sup>	800	0.15	120.-	252.-	201,600.-	
C-2	Macadam stone for structure bed	m <sup>3</sup>	110	4.20	462.-	6,480.-	712,800.-	
C-3	Structural concrete (Box culv. No.1)	m <sup>3</sup>	241	23.00	5,543.-	12,350.-	2,976,350.-	
C-4	Structural concrete (Box culv. No.2)	m <sup>3</sup>	222	21.50	4,773.-	11,060.-	2,455,320.-	
C-5	Structural concrete (Box culv. No.3)	m <sup>3</sup>	116	30.01	3,481.-	24,440.-	2,835,040.-	
C-6	Reinforcing steel bar	ton	56	229.50	12,852.-	46,750.-	2,618,000.-	
C-7	Backfilling, sand & gravel	m <sup>3</sup>	880	1.90	1,672.-	2,965.-	2,609,200.-	
C-8	Excavation, earth open ditch	m <sup>3</sup>	2,600	0.07	182.-	110.-	286,000.-	
C-9	P.C.C. repavement, taxiway slab	m <sup>2</sup>	78	23.00	1,794.-	7,710.-	601,380.-	
C-10	Break-down, concrete slab & block (taxiway slab & box culvert No-2)	m <sup>3</sup>	253	2.00	506	2,840.-	718,520.-	
	<u>Sub-total</u>				<u>31,385.-</u>		<u>16,014,210.-</u>	

Breakdown of Construction Cost

Item No.	Work	Unit	Quantity	Foreign Currency (\$)		Local Currency (Rp)		Remarks
				Unit Price	Amount	Unit Price	Amount	
D	Electrical Installations							
D-1	Runway edge lights	ls	1		7,350.-		1,663,750.-	
D-2	Taxiway edge light	ls	1		66,470.-		12,921,720.-	
D-3	Unserviceability light	ls	1		2,330.-		428,470.-	
D-4	Detour of the main cable duct and hand holes	ls	1		12,320.-		7,694,260.-	
D-5	Replacement of the existing wind cone	ls	1		1,500.-		1,258,350.-	
D-6	Constant current regulator	ls	1		8,620.-		1,437,590.-	
D-7	Equipment of the flashing beacon	ls	1		530.-		98,170.-	
D-8	Main power distribution panel	ls	1		3,560.-		534,970.-	
D-9	Change-over switch	ls	1		2,950.-		548,830.-	
D-10	Power receiving equipment	ls	1		11,970.-		2,321,690.-	
D-11	Cable systems for illumination	ls	1		36,900.-		14,612,690.-	
	<u>Sub-total</u>				<u>154,500.-</u>		<u>43,523,490.-</u>	

Breakdown of Construction Cost

Item No.	Work	Unit	Quantity	Foreign Currency (\$)		Local Currency (Rp)		Remarks
				Unit Price	Amount	Unit Price	Amount	
E	Miscellaneous Works							
E-1	Asphalt surface, vehicle entrance, 20 cm thickness	m <sup>2</sup>	120	2.00	240.-	3,296.-	395,520.-	
E-2	Concrete pavement, sidewalk, 10 cm thickness	m <sup>2</sup>	22	24.00	528.-	9,690.-	213,180.-	
E-3	Distance sign board, runway	sets	9	12.00	108.-	7,500.-	67,500.-	
E-4	Marking, all taxiways & apron	m <sup>2</sup>	1,130	1.00	1,130.-	328.-	370,640.-	
E-5	Deforesting & grubbing	m <sup>2</sup>	163,000	0.004	652.-	6.28	1,023,640.-	
	<u>Sub-total</u>				<u>2,658.-</u>		<u>2,070,480.-</u>	
F	Construction Plant and Equipment							
F-1	Transportation charge of construction plant and equipment	ls	1		163,400.-			
F-2	Depreciation cost of construction plant and equipment	ls	1		53,000.-		134,300,000.-	
	<u>Sub-total</u>				<u>216,400.-</u>		<u>134,300,000.-</u>	





## Breakdown of Unit Price

2-RUNWAY EXIT TAXIWAY &  
 Item No. A-1 Work Site 1-EXTENDED PARALLEL TAXIWAY

Work Stripping of top soil

Price 0.10 US\$ 159.30 Kp

Remark By dump truck

Per day 380 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							32,325
Foreman		m.d	2.00			1,800	3,600
Operator		"	6.55			1,200	7,860
Driver		"	8.48			1,000	8,480
Helper		"	6.55			500	3,275
Common		"	7.60			500	3,800
Mechanic		"	2.95			1,800	5,310
2. Material cost							13,012
Fuel & lubricant	Bulldozer						
	D-80	No. hr	11.69			437.10	5,109.70
	D-50	"	3.80			215.40	818.92
	Tractor						
	Shovel	"	6.33			419.40	2,654.80
	Dump truck	"	33.92			119.40	4,050.08
Consump. goods	About 3%	1s	1.0				378.90
Total							45,337
Per m <sup>3</sup>							119.30
3. General expenses		1s	1.0		0.10		40.00
0. Total					0.10		159.30

## Breakdown of Unit Price

Item No. A-2 Work Site 2-RUNWAY EXIT TAXIWAY & 1-EXTENDED PARALLEL TAXIWAY

Work Stripping of top soil

Price 0.12 US\$ 179.10 Kp

Remark: By carry-all scraper

Per day 200 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp		
				Unit Cost	Amount	Unit Cost	Amount	
<b>1. Labor cost</b>								
							<u>17,677</u>	
Foreman		m. d	1.00			1,800	1,800	
Operator		"	6.21			1,200	7,452	
Helper		"	6.21			500	3,105	
Common		"	2.00			500	1,000	
Mechanic		"	2.40			1,800	4,320	
<b>2. Material cost</b>								
							<u>2,148</u>	
Fuel & lubricant	Bulldozer							
	D-80	No. hr	19.95			437.10	8,790.14	
	D-50	"	0.75			215.40	161.55	
Consump. goods	About 3%	Is	1.0				266.91	
<b>Total</b>								<u>26,825</u>
Per m <sup>3</sup>								<u>134.12</u>
<b>3. General expenses</b>								
		Is.	1.0		<u>0.12</u>		<u>44.98</u>	
<b>G. Total</b>							<u>0.12</u>	<u>179.10</u>

## Breakdown of Unit Price

Item No. A-3      Work Site 2-RUNWAY EXIT TAXIWAY & 1-EXTENDED PARALLEL TAXIWAY

Work Cutting and filling

Price 0,06 US\$      99,40 Kp

Remark: Por day: 240 m<sup>3</sup> x 0,83  
200 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							10,950
Foreman		m.d	1,00			1,800	1,800
Operator		"	3,60			1,200	4,320
Helper		"	3,60			500	1,800
Common		"	3,00			500	1,500
Mechanic		"	0,85			1,800	1,530
2. Material cost							3,926
Fuel & lubricant	Bulldozer						
	17 ton	No. hr	6,50			437,10	2,841,15
	11 ton	"	2,22			215,40	478,18
	Tire roller	"	1,66			181,20	300,70
	Grader	"	1,04			184,60	191,98
Consump. goods	About 3%	ls	1,0				113,90
Total							14,876
Per m <sup>3</sup>							74,38
3. General expenses		ls	1,0		0,06		25,02
G. Total					0,06		99,40

## Breakdown of Unit Price

Item No. A-1 Work Site 2-RUNWAY EXIST TAXIWAY & 1-EXTENDED PARALLEL TAXIWAY

Work Embankment, Borrowing & subgrading

Price 0.20 US\$ 303.00 Kp

Remark ; Per day: 200 m<sup>3</sup>

Particular	Description	Unit	Qty.	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							<u>33,811</u>
	Foreman	m.d	2.00			1,800	3,600
	Operator	"	6.17			1,200	7,404
	Helper	"	6.17			500	3,085
	Driver	"	12.30			1,000	12,300
	Common	"	3.00			500	1,500
	Mechanic	"	3.29			1,800	5,922
2. Material cost							<u>11,399</u>
	Fuel & lubricant	Power shovel	No. hr	6.30		235.60	1,484.28
		Bulldozer D-80	"	6.03		437.10	2,635.70
		Dump truck	"	49.20		119.40	5,874.48
		Grader	"	4.47		184.60	825.10
		Tire roller	"	1.70		181.20	308.04
		Roller (MC)	"	1.06		132.60	140.55
	Consump. goods	About 3%	1s	1.0			330.78
	Total						<u>45,110</u>
	Per m <sup>3</sup>						<u>221.05</u>
3. General expenses		1s	1.0		<u>0.20</u>		<u>75.25</u>
G. Total					<u>0.20</u>		<u>303.00</u>

## Breakdown of Unit Price

Item No. A-5      Work Site 2-RUNWAY EXIT TAXIWAY & 1-EXTENDED PARALLEL TAXIWAY

Work Base course (30 cm thickness)  
Borrowing & grading

Price 0.33 US\$      517.70 Kp

Remark D = 5.7 km

Per day: 270 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
<b>1. Labor cost</b>							
Foreman		m. d	3.00			1,800	5,400
Operator		"	11.90			1,200	14,280
Helper		"	11.90			500	3,950
Driver		"	16.67			1,000	16,670
Common		"	33.00			500	16,500
Mechanic		"	4.91			1,800	8,820
<b>2. Material cost</b>							
Fuel & lubricant	Power shovel	No. hr	5.98			235.60	1,408.88
	Bulldozer D-80	"	10.17			437.10	4,445.30
	Dump truck	"	65.31			119.40	7,798.01
	Grader	"	9.38			184.60	1,731.54
	Tire roller	"	5.50			181.20	995.60
	Mac. roller	"	5.50			132.60	729.30
	Water tanker	"	1.24			144.60	179.30
Consump. goods	About 3%	ls	1.0				511.07
Sand	330 m <sup>3</sup> x 0.05 x 1.3	m <sup>3</sup>	21.40			900	19,260
<b>Total</b>							
<b>Per m<sup>3</sup></b>							
<b>104,680</b>							
<b>387.70</b>							
<b>3. General expenses</b>		ls	1.0		0.33		130.00
<b>G. Total</b>						<b>0.33</b>	<b>517.70</b>

## Breakdown of Unit Price

Item No. A-6 Work Site 2-RUNWAY EXIT TAXIWAY & 1-EXTENDED PARALLEL TAXIWAY

Work Concrete pavement

Price 21,80 US\$ 5,907,10 Kp

Remark: 28 cm thickness

Particular	Description	Unit	Qty	Per m <sup>3</sup>			
				(\$)	Currency	Kp	Currency
				Unit Cost	Amount	Unit Cost	Amount
A-6-1	Materials	m <sup>3</sup>	1.00	11,040	11,040	1,644	1,644
A-6-2	Mixing	"	1.00			168,71	168,71
A-6-3	Transporting	"	1.00			118,25	118,25
A-6-4	Furnishing	"	1.00			315,58	315,58
A-6-5	Curing	"	1.00	0,330	0,330	23,70	23,70
A-6-6	Forms	"	1.00	0,323	0,323	359,67	359,67
A-6-7	Joints	"	1.00	1,929	1,292	79,18	79,18
Total					<u>13,622</u>		<u>2,709,00</u>
General expenses		ls	1.00		<u>8,178</u>		<u>3,198,00</u>
G. Total					<u>21,80</u>		<u>5,907,10</u>

## Breakdown of Unit Price

Item No. A-7 Work Site 2-RUNWAY EXIT TAXIWAY & 1-EXTENDED PARALLEL TAXIWAY

Work Shoulder sodding

Price 0.12 US\$ 187,50 Kp

Remark:

(Per day 200 m<sup>2</sup>)

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
<b>1. Labor cost</b>							
Foreman		m, d	1.00			1,800	1,800
Operator		"	0.28			1,200	336
Helper		"	0.28			500	140
Driver		"	0.04			1,000	40
Common		"	50.00			500	25,000
Mechanic		"	0.08			1,800	144
<b>2. Material cost</b>							
Fuel & lubricant	Dollozer						640
	D-80	hr	0.54			437.10	236.04
	D-50	"	0.40			215.40	86.16
	Dump truck	"	0.16			144.60	23.14
Consump. goods		ls	1.0				291.68
<b>Total</b>							<b>48,100</b>
<b>Per m<sup>2</sup></b>							<b>140.50</b>
<b>3. General expenses</b>		ls	1.0		0.12		47.50
<b>G. Total</b>						<b>0.12</b>	<b>187.50</b>



## Breakdown of Unit Price

Item No. A-8

Work Site

2-RUNWAY EXIT TAXIWAY &  
1-EXTENDED PARALLEL TAXIWAY

Work Graded area, seeding

Price 0.77 US\$

150.00 Kp

Remark :

(Per day 500 m<sup>2</sup>)

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
1. Labor cost							<u>23,664</u>
Foreman		m. d.	1.00			1,800	1,800
Operator		"	0.84			1,200	1,008
Helper		"	0.84			1,200	1,008
Driver		"	0.13			1,000	130
Common		"	10.00			500	20,000
Mechanic		"	0.17			1,800	306
2. Material cost							<u>548</u>
Fuel & lubricant	Grador	No. hr	2.0			184.60	369.20
	Tire roller	"	0.5			181.20	90.60
	Water tanker	"	0.5			144.60	72.30
Consump. goods	About 3%	ls	1.0				15.90
Seed & other		"	1.0		26.50		
3. Miscellaneous	About 2%	ls	1.0				<u>488</u>
Total					<u>26.50</u>		<u>24,700</u>
Per m <sup>2</sup>					<u>0.053</u>		<u>49.40</u>
4. General expenses		ls	1.0		<u>0.717</u>		<u>100.60</u>
G. Total					<u>0.77</u>		<u>150.00</u>

## Breakdown of Unit Price

Item No. B-1

Work Site EXTENDED APRON & FILLLET IMPROVEMENT

Work Stripping of topsoil

Price 0.10 US\$

159.30 Kp

Remark : by dump truck

Particular	Description	Unit	Qty	Currency		Currency	
				Unit Cost	Amount	Unit Cost	Amount
Refer	to Item A-1						

## Breakdown of Unit Price

Item No. B-2

Work Site EXTENDED APRON & FILLET IMPROVEMENT

Work Removal of soft clay with un-suitable material

Price 0,15 US\$

238,30 Kp

Remark

Per day 110 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							<u>13,237</u>
Foreman		m. d	1,00			1,800	1,800
Operator		"	2,83			1,200	3,396
Helper		"	2,83			500	1,413
Driver		"	3,43			1,000	3,430
Common		"	2,00			500	1,000
Mechanic		"	1,22			1,800	2,196
2. Material cost							<u>3,917</u>
Fuel & lubricant	Backfore	No. hr	6,30			235,60	1,484,28
	Swamp dozer	"	3,14			215,40	676,35
	Dump truck	"	13,75			119,40	1,641,75
Consump. goods	About 3%	ls	1,0				114,62
3. Miscellaneous							<u>2,506</u>
Total							<u>19,660</u>
Per m <sup>3</sup>							<u>178,72</u>
4. General expenses		ls	1,0			<u>0,15</u>	<u>59,58</u>
G. Total						<u>0,15</u>	<u>238,30</u>

## Breakdown of Unit Price

Item No. B-3

Work Site EXTENDED APRON & FILLER IMPROVEMENT

Work Replacement with sand

Price 1.05 US\$

1,637.10 Kp

Remark :

Per day 110 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							4,085
Foreman		m. d	0.30			1,800	540
Operator		"	0.97			1,200	1,164
Helper		"	0.97			500	485
Common		"	3.00			500	1,500
Mechanic		"	0.22			1,800	396
2. Material cost							129,415
Sand	110m <sup>3</sup> x 1.3	m <sup>3</sup>	143.0			900	128,700
Fuel & lubricant	Swamp dozer	No. hr	3.24			215.40	697.90
Consump. goods	About 3%	ls	1.0				17.10
3. Miscellaneous		ls	1.0				1,300
Total							134,800
Per m <sup>3</sup>							1,225.40
4. General expenses		ls.	1.0		1.05		411.70
G. Total					1.05		1,637.10



## Breakdown of Unit Price

Item No. B-5 Work Site EXTENDED APRON & FILLET IMPROVEMENT

Work Embankment

Borrowing & subgrading

Price 0.22 US\$

349.00 Kp

Remark:

Per day 200 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							<u>38,717</u>
Foreman		m. d	2.00			1,800	3,600
Operator		"	6.17			1,200	7,401
Helper		"	6.17			500	3,085
Driver		"	16.18			1,000	16,180
Common		"	3.00			500	1,500
Mechanic		"	3.86			1,800	6,948
2. Material cost							<u>13,513</u>
Fuel & lubricant	Power shovel	No. hr	6.30			235.60	1,484.28
	Bulldozer D-80	"	6.03			437.10	2,635.71
	Dump truck	"	64.73			119.40	7,728.76
	Grader	"	4.47			184.60	825.16
	Tire roller	"	1.70			181.20	308.04
	Mac. roller	"	1.06			132.60	140.55
Consump. goods	About 3%	ls	1.0				390.50
Total							<u>22,230</u>
Per m <sup>3</sup>							<u>261.15</u>
3. General expenses		ls	1.0		0.22		<u>87.85</u>
G. Total					0.22		<u>349.00</u>

## Breakdown of Unit Price

Item No. B-6 Work Site EXTENDED APRON & FILLET IMPROVEMENT

Work Base course (30 cm thickness)

Borrowing & grading

Price 0.36 US\$

560.30 Kp

Remark: D = 8.0 km

Per day 270 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
1. Labor cost							<u>72,776</u>
Foreman		m.d	3.00			1,800	5,400
Operator		"	11.90			1,200	14,280
Helper		"	11.90			500	5,950
Driver		"	21.53			1,000	21,530
Common		"	33.00			500	16,500
Mechanic		"	5.62			1,800	10,116
2. Material cost							<u>39,456</u>
Fuel & lubricant	Power shovel	No. hr	5.98			235.60	1,408.88
	Bulldozer D-80	"	10.17			437.10	4,445.30
	Dump truck	"	84.73			119.40	10,116.70
	Grader	"	9.38			184.60	1,731.54
	Tire roller	"	5.50			181.20	996.60
	Mac. roller	"	5.50			132.60	729.30
	Water tanker	"	1.24			144.60	179.30
Consump. goods	About 3%	ls	1.0				588.32
Sand	330 x 0.05 x 1.3	m <sup>3</sup>	21.40			900	<u>19,260</u>
Total							<u>113,232</u>
Per m <sup>3</sup>							<u>419.37</u>
3. General expenses		ls	1.0			<u>0.36</u>	<u>140.92</u>
G. Total						<u>0.36</u>	<u>560.30</u>

## Breakdown of Unit Price

Item No. B-7 Work Site EXTENDED APRON & FILLET IMPROVEMENT

Work Concrete pavement

Price 21.90 US\$ 5,888.20 Rp

Remark: 28 cm thickness

Particular	Description	Unit	Qty	(\$)		Rp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
B-7-1	Materials	m <sup>3</sup>	1.00	11,390	11,390	1,635	1,635
B-7-2	Mixing	"	1.00			168.71	168.71
B-7-3	Transporting	"	1.00			118.25	118.25
B-7-4	Furnishing	"	1.00			315.58	315.58
B-7-5	Curing	"	1.00	0.350	0.350	23.70	23.70
B-7-6	Forms	"	1.00	0.323	0.323	359.67	359.67
B-7-7	Joints	"	1.00	1.625	1.625	65.01	65.01
	<b>Total</b>				<u>13.688</u>		<u>2,685.92</u>
	<b>General expenses</b>				<u>8,212</u>		<u>3,202.28</u>
	<b>G. Total</b>				<u>21.90</u>		<u>5,888.20</u>



## Breakdown of Unit Price

Item No. B-8 Work Site EXTENDED APRON & FILLET IMPROVEMENT

Work Concrete pavement, 38 cm thickness

Price 20.80 US\$ 6,598 Kp

Remark: Fillet

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
B-8-1	Materials	m <sup>3</sup>	1.00		11.390		1,635.00
B-8-2	Mixing	"	1.00				168.71
B-8-3	Transporting	"	1.00				118.25
B-8-4	Furnishing	"	1.00				315.58
B-8-5	Curing	"	1.00		0.246		21.90
B-8-6	Forms	"	1.00		0.336		1,091.30
B-8-7	Joints	"	1.00		0.555		11.90
	<b>Total</b>				<u>12.527</u>		<u>3,362.64</u>
	<b>General expenses</b>				<u>8.273</u>		<u>3,235.36</u>
	<b>G, Total</b>				<u>20.80</u>		<u>6,598</u>

## Breakdown of Unit Price

Item No. B-9

Work Site EXTENDED APRON & FILLET IMPROVEMENT

Work Concrete pavement, 20 cm thickness

Price 24.00 US\$

6,335 Kp

Remark

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
B-9-1	Materials	m <sup>3</sup>	1.00		11,390		1,635.00
B-9-2	Mixing	"	1.00				168.71
B-9-3	Transporting	"	1.00				118.71
B-9-4	Furnishing	"	1.00				372.76
B-9-5	Curing	"	1.00		0.444		26.64
B-9-6	Forms	"	1.00		0.178		422.86
B-9-7	Joints	"	1.00		3.105		103.47
	<b>Total</b>				<u>15.117</u>		<u>2,848.15</u>
	General expenses				<u>8.883</u>		<u>3,486.85</u>
	<b>G. Total</b>				<u>24.00</u>		<u>6,335</u>

## Breakdown of Unit Price

Item No. B-10

Work Site EXTENDED APRON & FILLLET IMPROVEMENT

Work Concrete pavement, 35 cm thickness

Price 24.10 US\$

7,180 Kp

Remark FILLLET

Per m<sup>2</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
B-10-1	Materials	m <sup>3</sup>	1.00	11.390	11.390	1,635.00	1,635.00
B-10-2	Mixing	"	1.00			168.71	168.71
B-10-3	Transporting	"	1.00			118.25	118.25
B-10-4	Furnishing	"	1.00			315.58	315.58
B-10-5	Curing	"	1.00	0.269	0.269	22.35	22.35
B-10-6	Forms	"	1.00	0.192	0.192	1,204.72	1,204.72
B-10-7	Joints	"	1.00	2.915	2.915	52.23	52.23
	Total					<u>14.766</u>	<u>3,516.84</u>
	General expenses					<u>9.334</u>	<u>3,663.16</u>
	G. Total					<u>24.10</u>	<u>7,180</u>

## Breakdown of Unit Price

Item No. B-11 Work Site EXTENDED APRON & PILEUP IMPROVEMENT

Work Shoulder sodding

Price 0.12 US\$ 187.50 Kp

Remark

Particular	Description	Unit	Qty	Currency		Currency	
				Unit Cost	Amount	Unit Cost	Amount
Refer to	Item A-7						

## Breakdown of Unit Price

Item No. B-12

Work Site EXTENDED APRON & FILLING IMPROVEMENT

Work Graded area, seeding

Price 0.77 US\$

150 Kp

Remark :

Particular	Description	Unit	Q'ty	Currency		Currency	
				Unit Cost	Amount	Unit Cost	Amount
Refer to Item A-8							

## Breakdown of Unit Price

Item No. C-1 Work Site DRAINAGE, CONCRETE CULVERT & EARTH OPEN DITCH

Work Unclassified excavation & rejection

Price 0.15 US\$ 252 Kp

Remark:

Per day 110 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
<b>1. Labor cost</b>							<u>14,235</u>
Foreman		m. d	1.00			1,800	1,800
Operator		"	2.83			1,200	3,396
Helper		"	2.83			500	1,415
Driver		"	3.82			1,000	3,820
Common		"	3.00			500	1,500
Mechanic		"	1.28			1,800	2,304
<b>2. Material cost</b>							<u>3,983.86</u>
Fuel & lubricant	Back fore Swamp dozer	No. hr	6.30			235.60	1,484.28
	Dump truck	"	3.14			215.40	676.35
Consump. goods	About 3%	ls	15.27			119.40	1,823.23
1.0			1.0				
<b>3. Miscellaneous</b>		ls	1.0				<u>2,506</u>
<b>Total</b>							<u>20,724.86</u>
<b>Per m<sup>3</sup></b>							<u>188.40</u>
<b>4. General expenses</b>		ls	1.0		<u>0.15</u>		<u>63.60</u>
<b>G. Total</b>					<u>0.15</u>		<u>252.00</u>

## Breakdown of Unit Price

Item No. C-2

Work Site

DRAINAGE, CONCRETE CULVERT &  
EARTH OPEN DITCH

Work : Macadam stone for structure bed

Price 4.20 US\$

6,480 Kp

Remark :

Per 10 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
1. Labor cost							2,360
Foreman		m.d	0.10			1,800	180
Common		"	6.00			500	3,000
Mechanic		"	0.10			1,800	180
2. Material cost							45,140
Macadam stone		m <sup>3</sup>	12.00			3,500	42,000
Sand		"	2.40			900	2,160
Fuel & lubricant	Rammer	No. hr	3.00			175	525
Miscellaneous	About 1%	ls	1.0				455
Total							48,500
Per m <sup>3</sup>							4,850
3. General expenses		ls	1.0		4.20		1,630
G. Total					4.20		6,480

## Breakdown of Unit Price

Item No. C-3 Work Site DRAINAGE, CONCRETE CULVERT & EARTH OPEN DITCH

Work Structural concrete

Box culvert No.1

Price 23.00 US\$

12,350 Kp

Remark :

Per 10 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
C-3-1	Material	m <sup>3</sup>	10.0	10.22	102.20	1,551	15,510
C-3-2	Mixing	"	10.0			465	4,650
C-3-3	Transporting	"	10.0			180.90	1,809
C-3-4	Placing and curing	"	10.0			926.33	9,263.30
C-3-5	Forms	m <sup>2</sup>	29.2	0.167	4.876	1,605	16,866
C-3-6	Water stop	m	0.91	2.64	2.402	410	3,731.0
C-3-7	Joint filler	m <sup>2</sup>	0.33	3.03	1,000	160	52,80
Total					<u>110.478</u>		<u>78,501.2</u>
Per m <sup>3</sup>					<u>11.05</u>		<u>7,852.12</u>
General expenses					<u>11.95</u>		<u>4,497.58</u>
G. Total					<u>23.00</u>		<u>12,350</u>



## Breakdown of Unit Price

DRAINAGE, CONCRETE CULVERT &  
 Item No. C-4 Work Site EARTH OPEN DITCH

Work Structural concrete

Box culvert No.2

Price 21,50 US\$ 11,060 Kp

Remark :

Per 10 m<sup>3</sup>

Particular	Description	Unit	Q'ty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
C-4-1	Material	m <sup>3</sup>	10.0	10,22	102,20	1,551,00	15,510
C-4-2	Mixing	"	10.0			465	4,650
C-4-3	Transporting	"	10.0			180,90	1,809
C-4-4	Placing incl. curing	"	10.0			926,33	9,263,90
C-4-5	Forms	m <sup>2</sup>	23,0	0,167	3,841	1,605	36,915
C-4-6	Water stop	m	1,32	2,64	3,485	410	541,20
C-4-7	Joint filler	m <sup>2</sup>	0,60	3,03	1,818	160	96
	Total				<u>111,344</u>		<u>68,784,50</u>
	Per m <sup>3</sup>				<u>11,13</u>		<u>6,878,45</u>
	General expenses				<u>10,37</u>		<u>4,181,55</u>
	G. Total				<u>21,50</u>		<u>11,060</u>

## Breakdown of Unit Price

**Item No.** C-5                      **Work Site** DRAINAGE, CONCRETE CULVERT & EARTH OPEN DITCH  
**Work** Structural concrete  
           Box culvert No. 3  
**Price.** 30.01 US\$                      24,440 Kp  
**Remark :**

Per 10 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
C-5-1	Material	m <sup>3</sup>	10.0	10.22	102.20	1,551	15,510
C-5-2	Mixing	"	10.0			465	4,650
C-5-3	Transporting	"	10.0			180.9	1,809
C-5-4	Placing incl. curing	"	10.0			926.33	9,263.3
C-5-5	Forms	m <sup>2</sup>	85.11	0.167	14.222	1,605	136,601.0
C-5-6	Miscellaneous & others	ls	1				465.2
<b>Total</b>						<u>116,422</u>	<u>168,299.2</u>
Per m <sup>3</sup>						<u>11.64</u>	<u>16,829.92</u>
<b>General expenses</b>						<u>18.37</u>	<u>7,610.08</u>
<b>G. Total</b>						<u>30.01</u>	<u>24,440</u>

## Breakdown of Unit Price

Item No. C-6                      Work Site DRAINAGE, CONCRETE CULVERT & EARTH OPEN DITCH

Work Reinforcing steel bar  
(Furnishing, placing)

Price 229,50 US\$                      46,750 Kp

Remark :

Per ton

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
<b>1. Labor cost</b>							<u>15,800</u>
Steel man		m.d	9.00			1,200	10,800
Common		"	10.00			500	5,000
<b>2. Material cost</b>						<u>151,00</u>	<u>200</u>
Reinforcing steel		t	1.03	144,70	149,04		
Bind wire		kg	5.00	0,30	1,50		
Consump. tool		ls	1.0		0,46		
Miscellaneous material		ls	1.0				200
<b>Total</b>						<u>151,00</u>	<u>16,000</u>
<b>3. General expenses</b>		ls	1.0		<u>78,50</u>		<u>30,750</u>
<b>G. Total</b>					<u>229,50</u>		<u>46,750</u>

## Breakdown of Unit Price

Item No. C-7      Work Site DRAINAGE, CONCRETE CULVERT & EARTH OPEN DITCH

Work Backfilling, sand & gravel

Price 1.90 US\$      2,965 Kp

Remark

Per 10 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
<b>1. Labor cost</b>							
		m, d	0.10			1,800	180
		"	7.00			500	3,500
		"	0.10			1,800	180
<b>2. Material cost</b>							
		m <sup>3</sup>	12.00			1,500	18,000
	Fuel & lubricant Rammer	No. hr	1.00			175	175
	Miscellaneous About 1%	ls	1.0				165
<b>Total</b>							
<u>22,200</u>							
<b>Per m<sup>3</sup></b>							
<u>2,220</u>							
<b>3. General expenses</b>							
ls      1.0 <u>1.90</u> <u>745</u>							
<b>G. Total</b>							
<u>1.90</u> <u>2,965</u>							

## Breakdown of Unit Price

Item No. C-8      DRAINAGE, CONCRETE CONVEYER &  
 Work Site PARTIAL OPEN DITCH

Work Excavation, earth open ditch

Price 0.07 US\$      110 Kp

Remark

(Per day 240 m<sup>3</sup>)

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
1. Labor cost							<u>15,934</u>
	Foreman	m. d	0.50			1,800	900
	Operator	"	3.50			1,200	4,200
	Helper	"	3.50			500	1,750
	Common	"	15.00			500	7,500
	Mechanic	"	0.88			1,800	1,584
2. Material cost							<u>3,686</u>
	Fuel & lubricant.	Bull 17t	No. hr 6.50			437,10	2,841.15
	Consump. goods	Grader.	" 4.00			184,60	738.40
			Is 1.0				106.45
Total							<u>19,620</u>
Per m <sup>3</sup>							<u>81.75</u>
3. General expenses						<u>0.07</u>	<u>28.25</u>
G. Total						<u>0.07</u>	<u>110</u>

## Breakdown of Unit Price

Item No. C-9 Work Site DRAINAGE, CONCRETE CULVERT & EARTH OPEN DITCH

Work P.C.C. repavement, taxiway slab  
28 cm thickness

Price 23.00 US\$ 7,710 Kp

Remark : \_\_\_\_\_

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
C-9-1	Concrete pavement	m <sup>3</sup>	1.0	13.999	13.999	2,773.58	2,773.58
C-9-2	Base course	m <sup>3</sup>	1.013			419.37	473.88
C-9-3	Shoulder sodding	m <sup>2</sup>	5.769			140.50	810.54
	<b>Total</b>				<u>14.00</u>		<u>4,058</u>
	<b>General expenses</b>					<u>9.00</u>	<u>3,652</u>
	<b>G. Total</b>				<u>23.00</u>		<u>7,710</u>

## Breakdown of Unit Price

Item No. C-10 Work Site DRAINAGE, CONCRETE CULVERT & EARTH OPEN DITCH

Work Break-down, concrete slab, block  
Taxiway slab & box culvert

Price 2.00 US\$ 2,840 Kp

Remark

Per 250 m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
C-10-1	Taxiway slab	m <sup>3</sup>	71.0			1,463.51	103,909.21
C-10-2	Box culvert (Reinforced conc.)	m <sup>3</sup>	182.0			2,392.14	135,369.48
Total							539,278.69
Per m <sup>3</sup>							2,131.54
General expenses						2.00	708.40
G. Total						2.00	2,840

## Breakdown of Unit Price

Item No. B-1 Work Site MISCELLANEOUS WORKS

Work Asphalt surface, vehicle entrance  
20 cm thickness

Price 2.00 US\$ 3,296 Kp

Remark :

Per m<sup>2</sup>

Particular	Description	Unit	Qty	(\$)		Kp		
				Unit Cost	Amount	Unit Cost	Amount	
E-1-1	Asphalt surface course (t = 0.05m)	m <sup>2</sup>	1.00			627.93	627.93	
E-1-2	Bituminous binder course (t = 0.15 m)	m <sup>2</sup>	1.00			1,761.54	1,761.54	
E-1-3	Base course (t = 0.20m)	m <sup>2</sup>	1.00			77.54	77.54	
<b>Total</b>								<u>2,467.01</u>
<b>General expenses</b>						<u>2.00</u>	<u>828.90</u>	
<b>G. Total</b>							<u>2.00</u>	<u>3,296</u>



## Breakdown of Unit Price

Item No. P-2

Work Site MISCELLANEOUS WORKS

Work Concrete pavement, sidewalk  
10 cm thickness

Price 24 US\$

9,690 Kp

Remark :

Per m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Concrete pavement					14,113		5,092,86
Materials		m <sup>3</sup>	1.00		10,766		1,668,00
Mixing		"	1.00				168,71
Transporting		"	1.00				118,25
Furnishing		"	1.00				372,76
Curing		"	1.00		0,842		36,64
Forms		"	1.00		0,889		2,445,14
Joints		"	1.00		1,616		283,36
2. Base course		m <sup>3</sup>	1.00				387,70
Total					14,113		5,480,56
3. General expenses		ls	1.0		9,887		4,209,44
G. Total					24,00		9,690

## Breakdown of Unit Price

Item No. B-3

Work Site MISCELLANEOUS WORKS

Work Distance sign board, runway

Price 12.00 US\$

7,500 Kp

Remark:

per 1 set,

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
<b>1. Labor cost</b>							<u>3,180</u>
Foreman		m.d	0.15			1,800	270
Carpenter		"	0.15			1,500	225
Skilled labor		"	1.44			1,500	2,160
Helper		"	0.15			500	75
Common		"	0.90			500	450
<b>2. Material</b>					<u>5.693</u>		<u>1,725</u>
Paint		kg	2.93	0.776	2.274		
Thinner		kg	0.78	0.200	0.156		
Wood, plate	antiseptis	m <sup>3</sup>	0.073	0.108	0.008	19,000	1,387
Wood, log	"	"	0.016	0.108	0.002	18,000	288
Plywood	Watertight	m <sup>2</sup>	3.91	0.763	2.983		
Nails		kg	0.40	0.263	0.105		
Miscellaneous	About 3%				0.165		50
<b>Total</b>					<u>5.693</u>		<u>4,905</u>
<b>General expenses</b>					<u>6.307</u>		<u>2,595</u>
<b>G. Total</b>					<u>12.00</u>		<u>7,500</u>

## Breakdown of Unit Price

Item No. E-1

Work Site MISCELLANEOUS WORKS

Work Marking, all taxiways & apron

Price 1.00 US\$

328 Kp

Remark :

Per m<sup>2</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
1. Labor cost							163
Foreman		m.d	0.01			1,800	18
Skilled labor		"	0.08			1,500	120
Common		"	0.05			500	25
2. Material					0.622		2
Traffic paint		kg	0.75	0.776	0.582		
thinner		ℓ	0.20	0.200	0.040		
Miscellaneous		ls	1.0				5
<b>Total</b>					<u>0.622</u>		<u>168</u>
General expenses						<u>0.378</u>	<u>160</u>
<b>G. Total</b>					<u>1.00</u>		<u>328</u>

## Breakdown of Unit Price

Item No. 1-5

Work Site MISCELLANEOUS WORKS

Work Deforesting & grubbing

Price 0.004 US\$

6.28 Kp

Remark :

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							<u>4,014.70</u>
Foreman		m/d	0.060			1,800	108
Operator		"	0.357			1,200	428.40
Helper		"	0.357			500	178.50
Mechanic		"	0.111			1,800	199.80
Common		"	6.2			500	3,100
2. Material cost							<u>620.75</u>
Fuel & lubricant	Bull D-80 No, hr		1.19			437.10	520.15
Gasoline		ℓ	2.50			33	82.50
Consump. goods, about 3%							18.10
Total							<u>4,635.45</u>
Per m <sup>2</sup>							<u>4.70</u>
3. General expenses		1s	1.0		<u>0.004</u>		<u>1.38</u>
G. Total					<u>0.004</u>		<u>6.28</u>

## Breakdown of Unit Price

Item No. A-6-1

Work Site TAXIWAY

Work Concrete pavement, Materials

Price 11.04 \$

1,644.0 Kp

Remark :

per m<sup>3</sup>

Particular	Description	Unit	Qty	Unit Cost	Currency Amount	Kp Unit Cost	Currency Amount
1. Material cost	(C=310kg/m <sup>3</sup> )						
Cement		t	0.3162	33.00	10.43		
Sand	614.4+1.66x1.1	m <sup>3</sup>	0.410			900.0	369.0
Gravel	1367.6+1.7x1.05	"	0.850			1,500.0	1,275.0
Pozzolith	No. 8	kg	0.780	0.61	0.47		
Subbase paper		m <sup>2</sup>	3.600	0.04	0.14		
Total					11.04		1,644.0

## Breakdown of Unit Price

Item No. A-6-2

Work Site TAXIWAY

Work

Concrete pavement, Mixing

Price

168.71 Kp

Remarks:

(per day, 180 m<sup>3</sup>)

Particular	Description	Unit	Qty	Currency		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							28,600
	Foreman	m.d	1.5			1,800	2,700
	Machine operator	"	1.8			1,000	1,800
	Skilled labor	"	4.5			1,500	6,750
	Operator	"	2.0			1,500	3,000
	Helper	"	2.0			500	1,000
	Common	"	16.5			500	8,250
	Electrician	"	1.0			1,500	1,500
	Mechanic	"	2.0			1,800	3,600
2. Material cost							1,770
	Fuel & lubricant	batcher plant					
		No. hr	6.0			67	402
		belt conveyor "	6.0			4	24
		bulb lit "	6.0			215.4	1,292.4
	Consump, goods	about 3%	1s				51.6
Total							30,370
per m <sup>3</sup>							168.71



## Breakdown of Unit Price

Item No. A-6-4

Work Site TAXIWAY

Work Concrete pavement, furnishing  
(Spreader & finisher)

Price 315,58 Kp

Remark :

(Per day 180 m<sup>3</sup>)

Particular	Description	Unit	Qty	Currency		Kp	
				Unit Cost	Amount	Unit Cost	Amount
<b>1. Labor cost</b>							<b>54,990</b>
	Foreman	m. d	1.50			1,800	2,700
	Concrete Common		25.00			1,500	37,500
	Blacksmith		6.00			500	3,000
	Operator		1.50			1,500	2,250
	Mechanic		3.60			1,000	3,600
	Helper		1.50			1,800	2,700
	Mechanic		1.80			500	900
			1.30			1,800	2,340
<b>2. Material cost</b>							<b>1,815</b>
	Fuel & Lubricant	Vibrator	No. h4	30.0		23.1	693
		Finisher	"	6.0		97.0	582
		Spreader	"	6.0		90.0	540
<b>Total</b>							<b>56,805</b>
<b>Per m<sup>3</sup></b>							<b>315,58</b>



## Breakdown of Unit Price

Item No. A-6-5

Work Site TAXIWAY

Work Concrete pavement, Curing

Price 0.33 US\$

23.70 Kp

Remark :

Per m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Currency Amount	Unit Cost	Currency Amount
1. Wetting		ls	1				12.60
2. Chemical curing		ls	1		0.29		7.10
3. Sheet & other		ls	1		0.04		1.00
<b>Total</b>					<u>0.33</u>		<u>23.70</u>

## Breakdown of Unit Price

Item No. A-6-6

Work Site TAXIWAY

Work Concrete pavement, Forms

Price 0.323 US\$

359.67 Kp

Remark :

Per m<sup>3</sup>

Particular	Description	Unit	Qty	(\$)		Kp	
				Unit Cost	Amount	Unit Cost	Amount
1. Labor cost							<u>253.40</u>
	Foreman	m.d	0.014			1,800	25.20
	Steelworker	"	0.072			1,200	86.40
	Blacksmith	"	0.007			1,500	10.50
	Carpenter	"	0.029			1,500	43.50
	Driver	"	0.054			800	4.30
	Common	"	0.167			500	83.50
2. Material cost							<u>106.27</u>
	Steel form	ls	1		0.305		
	Wood form	ls	1				96.31
	Pin	ls	1		0.018		
	Miscellaneous	ls	1				9.96
Total						0.323	<u>359.67</u>