MINISTRY OF AGRICULTURE AND COOPERATIVE GOVERNMENT OF THE KINGDOM OF THAILAND DOK KRAI-MAB TA PUD WATER PIPELINE PROJCT IN THE EAST COART AREA

社会開発協力部報告書

1122

61.7

SPS

BILL OF QUANTITIES

ROYAL IRRIGATION DEPARTMENT

AUGUST 1982





ROYAL IRRIGATION DEPARTMENT MINISTRY OF AGRICULTURE AND COOPERATIVE GOVERNMENT OF THE KINGDOM OF THAILAND

DOK KRAI-MAB TA PUD WATER PIPELINE PROJCT IN THE EAST COART AREA

BILL OF QUANTITIES



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登録No. 09207	SDS

PREAMBLE

- The Bill of Quantities shall be read in conjunction with the Instructions to Tenderers, Conditions of Contract, 1. Specifications and Drawings.
- All payments to the Contractor shall be made in accordance with the rates entered into this Bill of Quantities, provided 2. always as follows:
 - The quantities given in the Bill of Quantities are approximate and provisional and are given to provide a common basis for tendering. The basis of payment will be the actual quantities of work ordered and carried out, as measured by the Engineer and valued at the rates and prices quoted in the Bill of Quantities where applicable, and otherwise at such rates and prices as the Engineer may fix within the terms of the Contract.
 - The classification of work is made by the Engineer's judgment. b.

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3.

- The measurement is done to the actually executed work by the Contractor, except where otherwise specifically с. described in the Specifications or instructions or shown on the Drawings as pay-line.
- The work, either whole or partly, which is not executed, by the Engineer's judgment, in accordance with the d. provisions of Contract is not subject to measurement or payment unless such work is reinstated by the Contractor according to the Engineer's instructions.
- In the Tender a price or rate shall be entered against each Pay Item in the Bill of Quantities, whether quantities are stated or not. The cost of Items against which the Contractor has failed to enter a price or rate shall be deemed to be covered by the Contract Price.
- The whole cost of complying with the provisions of the Contract shall be included in the Pay Items provided in the Bill 4. of Quantities, and where no Pay Items provided shall be deemed to be distributed amongst the rates and prices for the related Pay Items of Work.
- The rates and prices in this Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, 5. include all plant, labour, superintendence, materials, erection, maintenance, insurance, profit together with all general risks, liabilities and obligations set out or implied in the Contract. The rates and prices are also deemed to include all allowances for waste or surplus of any kind, which are not subject to the measurement.
- The expression of each item of work in this Bill of Quantities shall be deemed only as abstract idea of the work, which 6. consists many kinds of act as detailed in the relevant Sections and Clauses of the Conditions of Contract, Specifications and Drawings.

- The application of all of rates entered into this Bill of Quantities is not obligation of the Engineer who has right to 7. omit some of such work or rate if he judges as not necessary to complete the Works.
- All payments to be done for monthly payment certificate are deemed as provisional payments, and the Engineer has power to 8. reduce paid amount in proceeding payment certificates whensoever any defect is found in or on the said work or to replace the payment from one item to other item if such re-arrangement is judged as necessary.
 - The final payment certificate which is provided after the Provisional Take-over of the Works is solely deemed as correct and definitive certificate in quantities and amounts to each item of work and whole of the Works.
 - No separate or additional payment shall be made for work for which there is (are) unit rate(s) if much work is deemed to be included in and is paid for under a lump sum item.

9.

Numbers of the Pay Items of the Bill of Quantities do not always correspond to numbers of Sections or Clauses of the 10. Specifications. The Pay Items in each Section of the Bill of Quantities shall be read in conjunction with the Measurement and Payment Clauses in the relevant Sections of the Particular Specifications.

1000	GENERAL REQUIREMENTS
2000	INTAKE FACILITIES
	INTAKE FACILITIES
3000	PIPELINE
4000	HEAD TANK
5000	RECEIVING FACILITIES
6000	CONTROL SYSTEM
7000	BUILDING
8000	
9000	TEST OPERATION & COMMISSIONING
	TOTAL

ITEM

NO.

DESCRIPTION OF WORKS

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SUMMARY OF BILL OF QUANTITIES UNIT QUANTITY RATE AMOUNT

> Provisional Sum

> > .

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DOK KRAI-MAB TA PUD WATER PIPELINE PROJECT

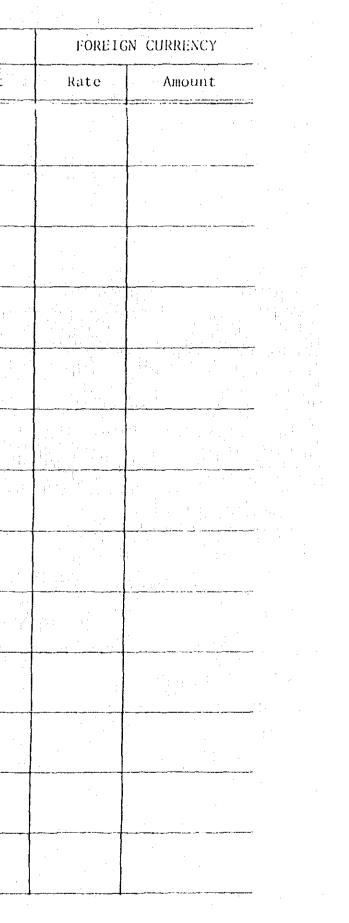
Rate

LOCAL CURRENCY

Amount

FOREIGN CURRENCY Rate Amount

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NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUN'I	Rate	An
,							
1000	COMMON TEMPORARY WORKS					. 	
							+
1001	Allow for Site Preparation	L.S.					
1002	Allow for Transportation of Constructional Plant	L.S.					· · · · · · · · · · · · · · · · · · ·
1003	Allow for Access Road	L.S.					
1004	Allow for Power Supply during Construction	L.S.					
· · · ·							
1005	Allow for Water Supply during Construction	L.S.					
1006	Allow for Telecommunication during Construction	L.S.					
1007	Allow for Contractor's Office, Camp, Workshop, Store, etc.	L.S.					
1008	Allow for Sanitary Measure & First Aid	L.S.					:
				· · · ·			
1009	Allow for Safety Precaution	L.S.					
	SUB-TOTAL						·
	500-101AL						
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DIVISION 1. GENERAL REQUIREMENTS

		(D) TO		DA መድ	AMOUNT	LOCAL C	URRENCY
ITEM NO.	DESCRIPTION OF WORKS	UNIT	QUANT ITY	RATE	AMOUNT	Rate	Amour
1100	EMPLOYER'S AND ENGINEER'S FACILITIES						
1101	Provision & Maintenance of Employer and Engineer's Office	L.S.					
1102	Provision & Maintenance of Employer and Engineer's Residence	L.S.					
1103	Provision, Operation & Maintenance of Field Laboratory	L.S.					
1104	Provision, Operation & Maintenance of Saloon Car (2 liter)	Month	84				
1105	Provision, Operation & Maintenance of Micro-bus	Month	64				
1106	Provision, Operation & Maintenance of Pick-up Car	Month	40				
1107	Supply of Pick-up Car (1.6 liter)	No .	5				
1108	Supply of Motorcycle (100 cc)	No.	3				1
1200	OTHER WORKS & FACILITIES Other Works & Facilities Proposed & Required by Contractor	L.S.					
	SUB-TOTAL				:		
	DIVISION 1 TOTAL						

FOREIGN CURRENCY Rate Amount unt .

	DIVISION 2. INTAKE FACILITIES								
ÉTEM NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCA	L CURRENCY	FOREIG	N CURRENCY
						Rate	Amount	Rate	Amount
2000	GENERAL								
2001	Allow for Temporary Works of Intake Facilities	L.S.							
2002	Exploratory Drilling at Intake Tower Foundation, etc.	m	60						
	SUB-TOTAL								
2100	INTAKE TOWER								
2101	Common Excavation under water at Tower Foundation	cu.m	3,200						
2102	Rock Excavation under water at Tower Foundation	cu.m	100						
2103	Concrete under water at Tower Foundation, Class B	cu.m	1,000						· · · · · · · · · · · · · · · · · · ·
2104	Base & Shoe Plates under water at Tower Foundation	No.	4						
2105	Reinforced Concrete of Caisson Tower including Reinforcing Bar, Formwork, etc., Class C	cu.m	3,100						
2106	Filling Concrete at Tower Base, Class E	cu.m	400						
2107	Base Concrete on Floor of Tower including Formworks, Reinforcing Bar, etc., Class D	cu.m	60						
2108	Cinder Concrete on Floor of Tower including Formworks, Class G	cu.m	70						

	DIVISION 2. INTAKE FACILITIES	· · · · · · · · · · · · · · · · · · ·				1004	AIDDING	FORTI		
ЪМ (01) –	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT		CURRENCY		SN CURRENCY	
			1			Rate	Amount	Rate	Amount	·
. : · ·										·
109	Installation of Caisson Tower	L.S.	i							
110	Mortar Grouting at Tower Foundation	cu.m	160							1994 1997 1997
111	Waterproof Membrane on Inside Surface Wall. of Tower	sq.m	2,100							
112	Supply & Installation of Stairway	ka	5,000							
		kg								
113	Supply & Installation of Ladder	kg	100							-
114	Supply & Installation of Handrail	kg	1,400							
115	Supply & Installation of Miscellaneous Metal	kg	3,000							
116	Supply of Complete Set of Dust Floater	set	2							
117	Installation of Dust Floater on Tower	set	2							
	SUB-TOTAL								<u> </u>	
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DIVISION 2. INTAKE FACILITIES

I FEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAI	. CURRENCY
NO.						kate	Amount
2200	INTAKE BRIDGE						
2201	Supply of Steel Pipe Pile for Bridge Pier, Ø508, L = 15 m	No.	24				
2202	Installation of Steel Pipe Pile for Item 2201	No.	24				
2203	Supply of Steel Pipe Pile for Bridge Pier, Ø508, L = 13 m	No.	18				1
2204	Installation of Steel Pipe Pile for Item 2203	No.	18				
2205	Supply of Steel Pipe Pile for Bridge Pier, Ø508, L = 10 m	No.	18				
2206	Installation of Steel Pipe Pile for Item 2205	No.	18				
2207	Supply & Installation of R.C. Pile for Anchor Block, 300 x 300, L = 8.0 m	No.	6				
2208	Supply & Installation of R.C. Pile for Anchor Blocks, 300 x 300, L = 5.0 m	No .	8				
2209	Reinforced Concrete for Footing & Abutment Retaining Wall & Anchor Block, Class D	cu.m	250				
2210	Formwork to Concrete for Item 2209	sq.m	550				
2211	Reinforcing Bar to Concrete for Item 2209	ton	25				
2212	Levelling Concrete, Class H	cu.m	5				

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FOREIGN CURRENCY

Rate Amount _____

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	DIVISION 2. INTAKE FACILITIES								· · · · · ·
FEM NO 1	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUN'I'	LOCAI	CURRENCY	FOREIC	SN CURRENCY
X() -				. :		Rate	Amount	Rate	Amount
2213	Supply of P.C. Girder for Road Bridge, Type A	No.	40	:					
2214	Supply of P.C. Girder for Pipe Support Bridge, Type B	No .	20						
				<u></u>	· · · · · · · · · · · · · · · · · · ·				
2215	Installation of P.C. Girder for Type A_& Type B	No.	60						
2216	Supply & Installation of Neoprene Bearing Pad, W = 150,	sq.m	19						
2217	Supply & Installation of Lateral Tie Bar, Ø32, L=4.0 m	No.	50						
2218	Supply & Installation of Lateral Tie Bar, Ø32, L=2.0 m	No.	50						
2219	Rainforced Concrete of Slab & Shear-key for Bridge, Class C	cu.m	130						
2220	Formwork to Concrete for Item 2219	sq.m	320						
2221	Reinforcing Bar to Concrete for Item 2219	ton	7						
2222	Supply & Installation of Expansion Joint for Bridge	No.	11						
2223	Supply & Installation of Handrail	kg	12,000						
		······					· · · · ·		
2224	Supply & Installation of Drainage Installation	No,	20						
2225	Supply of Steel Pipe on Bridge, Ø1,350.	m	165						

DIVISION 2. INTAKE FACILITIES

ETEM ¹	DESCRIPTION OF WORKS	UNIT.	QUANTITY	RATE	AMOUNT	LOCAL	CURRENCY
NO.						Rate	Amount
2226	Supply of Tee Pipe with Manhole Ø1,350 x 600, L = 8.0 m	No .	2				
2227	Supply of Tee Pipe with Manhole $\emptyset 1,350 \ge 600$, L = 4.0 m	No.	1				
2228	Installation of Steel Pipe & Tee Pipe with Manhole for Items 2225 - 2227	m	190				
2229	Supply & Installation of Saddle Support	No.	46				
2230	Supply & Installation of Ring Support	No.	4				
2231	Supply of High Speed Air Valve, Ø150	No.	3				
2232	Installation of High Speed Air Valve Ø150	No.	3	<u>.</u>			
2233	Supply of Dresser Type Coupling	No.	6				
2234	Installation of Dresser Type Coupling	No.	6				
2235	Supply & Installation of Cable Box	kg	32,000				
2236	Supply & Installation of Lighting Post	No.	20				
· · · · · · · · · · · · · · · · · · ·	SUB-TOTAL						
							· · · · · · · · · · · · · · · · · · ·

 \mathbf{v} -FOREIGN CURRENCY Rate nt Amount _____ ---------------

	DIVISION 2. INTAKE FACILITIES	-1	······································	T				·	
ITEM NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAL	CURRENCY	FOREIG	SN CURRENCY
no.						Rate	Amount	Rate	Amount
2300	INTAKE YARD								
2301	Stripping	ca m	7,000						
		sq.m	7,000						
2302	Common Excavation	cu.m	1,000						
2303	Fill & Back Fill	cu,m	600						· · · · · · · · · · · · · · · · · · ·
2304	Embankment at Yard	cu.m	20,000						
2305	Rip-rap Mound	cu.m	1,400						
2306	Rip-rap Revetment	cu.m	1,100						
2307	Sodding at Yard	sq.m	4,000						
2308	Bitumen Seal Coat Pavement of Road	sq.m	500						
2309	Supply & Installation of Guardrail	m	20						
310	Supply & Installation of R.C. Pile for Air Chamber Foundation, $L = 7.5$ m	No.	24						
311	Levelling Concrete, Class H	cu.m	16						
2312	Reinforced Concrete at Air Chamber, Class D	cu.m	120	*			· · · · · · · · · · · · · · · · · · ·		

Y	FOREI	FOREIGN CURRENCY								
nt	Rate	Amount								
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			:							

I TEM	DIVISION 2. INTAKE FACILITIES DESCRIPTION OF WORKS		OUAN'EL EV	DAPD		LOCAL	CURRENCY	FOREI	GN CURRENCY
NO.		UNIT	QUANTITY	RATE	AMOUNT	Rate	Amount	Rate	Amount
313	Base Concrete at Air Chamber, Class D	cu.m	50						
314	Cinder Concrete at Air Chamber, Class G	cu.m	15						
315	Formwork to Concrete for Items 2312 & 2314	sq.m	500			1			
316	Reinforcing Bar to Concrete for Items 2312	ton	8						
317	Supply & Installation of Handrail	kg	600						
318	Supply & Installation of Miscellaneous Metal	kg	1,000						
	SUB-TOTAL								
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ITEM NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT		L CURRÈNCY		GN CURRENCY
						Rate	Amount	Rate	Amount
· .									. <u>.</u>
2400	PUMPING PLANTS								
2401	Supply of Main Pump	unit	6						4
2402	Supply of Main Motors	unit	6						
403	Supply of Butterfly Valves by Manual Operation	unit	12						
		.:							
404	Supply of Butterfly Valves by Motor Operation	unit	6						
405	Supply of Check Valves	unit	6						
406	Supply of Drainage Pumps with Motor	unit	2						
		unre	<u> </u>						
407	Supply of Overhead Travelling Crane	unit						1 - A	
107	Suppry of Overneau Traverting Grane		1						
408	Cumulation C. Custion and Dolivery Divers				:				
+00	Supply of Suction and Delivery Pipes	L.S.							
400 -									
409	Supply of Intake Gate with Screen	unit	10						
410		:						1	
410	Supply of Catwalk for Inspection	L.S.							
411	Supply of Air Chamber Facilities	L.S.					·		: i
412	Supply of Spare Parts & Tools	L.S.			·				

I TEM	DESCRIPTION OF WORKS			D A/DIT		LOCAL	CURRENCY	FOREI	GN CURRENCY
NO	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	Rate	Amount	Rate	Amount
2413	Transportation of All Plants and Equipment for Item 2400	L.S.							
2414	Installation of Pumping Plants and Equipment for Item 2400	L.S.		• • •					
	SUB-TOTAL								
2500	ELECTRICAL FACILITIES								
2501	Supply of 22 KV Receiving Cubicle for Substation	unit							
2502	Supply of 22 KV Incoming Circuit Breaker Cubicle for Substation	unit	1						
503	Supply of 22 KV Circuit Breaker Cubicle for Substation	unit	2						
504	Supply of 22 KV Bus Duct Material for Substation	lot	2						
505	Supply of Main Transformer for Substation	unit	2						
506	Supply of Transformer Secondary Cubicle for Substation	unit	2						
507	Supply of Bus Connecting Cubicle for Substation	unit	1						
508	Supply of Feeder Cubicle A & B for Substation	unit	. 2						
509	Supply of Cables & Wires for Substation	L.S.							

	DIVISION 2. INTAKE FACILITIES					i i i i i i i i i i i i i i i i i i i i			
I TEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUN'I'	LOCAL	CURRENCY	FOREI	GN CURRENCY
NO.						Rate	Amount	Rate	Amount
		<u></u>							
2510	Supply of Spare Parts & Tools for Substation	L.S.							
2511	Transportation of Equipment, Material for Items 2501 - 2510	L.S.							
2512	Installation of Electrical Facilities & Appurtenance at Substation for Items 2501 - 2510	L.S.				-			
2513	Supply of 3.3 KV Receiving Cubicle for Control House	unit	2						
2513			2						
2514	Supply of 3.3 KV Bus Connecting Supply of Feeder Cubicle for Transformer to Pumping Plant in Control House	unit							
2516	Supply of Main Motor Starter for Control House	unit unit	6						
2517	Supply of Station Service Transformer Cubicle for Control House	unit							
2518	Supply of Motor Control Center & Sequence Relay Cubicle for Control House	unit							
519	Supply of DC/AC Uninterruptable Power Source Cubicle for Control House	unit	1	······································					
520	Supply of Central Supervising & Control Panel for Control House	unit	1						
521	Supply of Local Control Panel of Drainage Pump for Control House	unit	1						
522	Supply of Diesel Engine Generator for Station Power Supply at Control House	lot	1						

ГЕМ	DIVISION 2. INTAKE FACILITIES DESCRIPTION OF WORKS			DATE	AMOUNTP	LOCAL	CURRENCY	FOREIG	IN CURRENCY	
NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	Rate	Amount	Rate	Amount	
523	Supply of Cables & Wires for Control House	L.S.								
524	Supply of Spare Parts & Tools for Control House	L.S.								
525	Transportation of Equipment, Instrument and Material for Items 2513 - 2514	L.S.								:
526	Installation of Electrical Facilities & Appurtenance at Control House for Items 2513 - 2514	L.S.								
	SUB-TOTAL									
	DIVISION 2 TOTAL									
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• . •	DIVISION 3. PIPELINE							·		
e al 11 ° 14 4		·				LOCAL	CURRENCY	FOREI	GN CURRENCY	-
TEM NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	Rate	Amount	Rate	Amount	
3000	GENERAL			:						
3001	Allow for Temporary Works for Pipeline	L.S.				-				-
3002	Allow for Replacement of Existing R.C. Water Pipe to Factory along Highway Route-3	L.S.								·
	SUB-TOTAL									
3100	SUPPLY OF PIPES & VALVES									- · .
3101	Supply of Steel Pipe \emptyset 1,350 t = 11.9	m	26,300							
3102	Supply of Steel Jacking Pipe Ø1,350	m	48							- :
3103	Supply of Steel Tee Pipe for Blow-Off, $\emptyset 1,350 \ge 400$ L = 2.0 m	No.	27							
3104	Supply of Steel Tee Pipe for Manhole, Ø1,350 x 600 L = 2.0 m	No.	25							
5105	Supply of Steel Tee Pipe for PTT Branch, \emptyset 1,350 x 500 L = 2.5 m	No.	1							
106	Supply of Steel Tee Pipe for Air Chamber, \emptyset 1,350 x 500 L = 2.5 m	No.	3							-
107	Supply of Steel Tee Pipe for Branch Line $\emptyset 1,350 \ge 250$ L = 2.0 m	No.	2							3 ()
108	Supply of Steel Tee Pipe for Branch Line, $\emptyset 1,350 \ge 150$ L = 2.0 m	No.	2							:

ITEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE		LOCAI	CURRENCY	FOREI	SN CURRENCY
NO.		UNTI	QUANTITI	KATE	AMOUNT	Rate	Amount	Rate	Amount
3109	Supply of Steel Pipe with Flange - one side $\emptyset 1,350$ L = 1.5 m	No.	34						
3110	Supply of Steel Pipe for PTT Branch, $\emptyset 500$ t = 6.0	m	10			E. Alternation			
3111	Supply of Steel Pipe with Flange - one side, $\emptyset 500$ L = 0.5 m	No.	1						
3112	Supply of Steel Pipe with Flanges - two side, $\emptyset 500$ L = 3.0 m	No.	1						
3113	Supply of Blind Flange for Steel Pipe, Ø500	No.	1						
5114	Supply of Steel Pipe for Blow-off, $\emptyset 400$ t = 6.0	m the second	180						***
115	Supply of Steel Pipe with Flange - one side, $ \emptyset 400 L = 0.665 \text{ m} $	No.	48						
116	Supply of Steel Pipe with Flange - one side, $\emptyset 250$ t = 6.6 L = 1.0 m	No.	2						
117	Supply of Steel Pipe with Flanges - two side, $\emptyset 250$ t = 6.6 L = 1.0 m	No.	2						
118	Supply of Blind Flange for Steel Pipe, Ø250 mm	No.	2						
119	Supply of Steel Pipe with Flange – one side, $\emptyset 150$ t = 5.0 L = 1.0 m	No.	2						
120	Supply of Steel Pipe with Flange ⁵ - two side, Ø150 t = 5.0 L = 1.0 m	No.	2						
121	Supply & Installation of Blind Flange for Steel Pipe, Ø150	No.	2						

TEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCA	L CURRENCY	FOREI	GN CURRENCY
NO.		UNTI	QUARTIT	AATL	AMOONT	Rate	Amount	Rate	Amount
3122	Supply & Installation of Blind Flange for Manhole, $0600 \ {\rm x} \ 150$	No,	25						
3123	Supply of Victaulic Closer Type Coupling for Steel Pipe, Ø1,350	No.	3						
3124	Supply of Dresser Type Coupling for Steel Pipe, $\emptyset 1,350$	No.	17						
3125	Supply of Dresser Type Coupling for Steel Pipe, Ø500	No.	1						
3126	Supply of Dresser Type Coupling for Steel Pipe, Ø400	No.	23						
3127	Supply of Butterfly Valve for Emergency Stop Valve, Ø1,350	No.	18						
3128	Supply of Butterfly Valve for PTT Branch Ø500	No.	2						
3129	Supply of Sluice Valve for Blow-off, Ø400	No.	25	· · · · · · · · · · · · · · · · · · ·					
3130	Supply of Sluice Valve for Branch Pipeline, Ø250	No.	3						
3131	Supply of Sluice Valve for Branch Pipeline, Ø150	No.	3						
3132	Supply of High Speed Air Valve Ø150	No.	26	· · · ·					
	SUB-TOTAL					:			

DIVISION 3. PIPELINE

ITEM NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAL	CURRENCY	FOREI	GN CURRENCY
						Rate	Amount	Rate	Amount
3200	INSTALLATION OF PIPES & VALVES	:							
5201	Installation of Steel Pipe, Ø1,350	m	26,500						
202	Jacking of Pipe, Ø1,350	m	48						
3203	Installation of Steel Pipe, Ø500 and Ø400	m	230						
204	Installation of Steel Pipe, Ø250 and Ø150	m	10						
205	Installation of Butterfly Valve, Ø1,350	No.	17						
206	Installation of Butterfly Valve, Ø500	No.	1						
207	Installation of Sluice Valve, Ø400	No.	24						
208	Installation of Sluice Valve, Ø250	No.	2						
209	Installation of Sluice Valve, Ø150	No.	2						
210	Installation of High Speed Air Valve, Ø150	No.	25						
11	Installation of Victaulic Closer Type Coupling, Ø1,350	No.	3						
212	Installation of Dresser Type Coupling, Ø1,350	No.	17		ugen ∰** ¥** g** g* + Uni g** g** g** g** g** g** mit				

ITEM	DESCRIPTION OF WORKS			DA1012	AMOUBLE	LOCAL	CURRENCY	FOREIC	GN CURRENCY
NÔ.	DESCRIPTION OF WORKS		QUANTITY	RATE	AMOUNT	Rate	Amount	Rate	Amount
								Canon Diversity Bridd Liver Constants	and the second
3213	Installation of Dresser Type Coupling, Ø500 and Ø400	No.	24						<u> </u>
	SUB-TOTAL								
3300	CIVIL WORK FOR PIPELINE								
3301	Earthworks for Pipeline, Ø1,350	m	26,500						
3302	Earthworks for Pipeline, Ø500 and Ø400	n en	230						
3303	Earthworks for Pipeline, Ø250 and Ø150	m	10						
3304	Common Excavation	cu.m	6,000						
3305	Fill & Backfill	cu.m	5,500						
306	Mortar Riprap at River Protection	cu,m	350						
3307	Placed Riprap	cu.m	150						
308	Aggregate Foundation	cu.m	100						
309	Levelling Concrete, Class H	cu.m	50						
310	Reinforced Concrete for Valve Chamber, blow-off put and Boxes, Class D	cu.m	600						ana ina ina ina ina ina ina ina ina ina

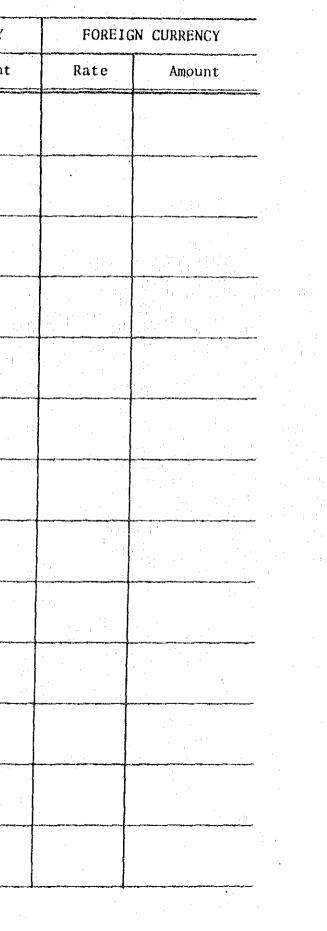
TEM	DECCULERION OF MORKS			η Ατρε	AMOUNT	LOCAL	. CURRENCY	FOREIC	SN CURRENCY
NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	KATL ANOONT	Rate	Amount	Rate	Amount
311	Formwork to Concrete for Item 3310	sq.m	3,400						
312	Reinforcing Bar to Concrete for Item 3310	ton	60						
313	Concrete Encasement including Formwork & Reinforcing Bar.	m	550			2			
314	Supply & Installation of Miscellaneous Metal	kg.	3,000						
315	Surface Valve Box	No.	28						
316	Supply & Installation of Marking Post	No.	120						
	SUB-TOTAL								
E M	DIVISION 3 TOTAL								
					+			<u></u>	

- 10 	DIVISION 4. HEAD TANK								
TEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAL	CURRENCY	FOREI	GN CURRENCY
NO.						Rate	Amount	Rate	Amount
4000	GENERAL								
4001	Allow for Temporary Works of Head Tank	L.S.							
1002	Exploratory Drilling	m	10						
	SUB-TOTAL								
4100	HEAD TANK								
4101	Common Excavation at Head Tank	cu.m	1,300						
4102	Fill and Backfill at Head Tank	cu.m	650						
1103	Levelling Concrete at Head Tank, Class H	cu.m	25						
104	Reinforced Concrete for Base Slab at Head Tank, Class (cu.m	250						
105	Reinforced Concrete of Level Meter Box and Valve Box, Class D	cu.m	20						
106	Formwork to Concrete for Items 4104 and 4105	sq.m	340						
107	Reinforcing Bar to Concrete for Item 4104 and 4105	ton	20						
108	Prestressed Concrete Works for Upper Structure of Head Tank	Empty cu.m	4,910						

DIVISION 4. HEAD TANK

DIVIDION 4. ILEAD IANK

ITEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAL	CURRENCY
NO.						Rate	Amount
4109	Supply of Steel Pipe, Ø1,350	m	15				
4110	Supply of Bell Mouth Pipe, Ø1,350	kg	300			· · · · · · · · · · · · · · · · · · ·	
4111	Installation of Steel Pipe for Items 4109 and 4110	m	15				
4112							
4112	Supply & Installation of Steel Pipe for Drains, Ø200	kg.	900				
4113	Supply & Installation of Steel Pipe for Level Meter,Ø80	kg.	50				
4114	Supply & Installation of Dresser Type Coupling, Ø200	No.	2				
4115	Supply & Installation of Sluice Valve Ø200	No.					
4116	Supply & Installation of Sluice Valve, Ø80	No.	1				
4117	Supply & Installation of Ladder & Platform	kg.	2,500				
4118	Supply & Installation of Lightning Rod	set	3				
4119	Supply & Installation of Miscellaneous Metal	kg	2,000				
	SUB-TOTAL						



DIVISION +4. HEAD TANK

ITEM	DESCRIPTION OF WORKS		<u><u> </u></u>			LOCAL	CURRENCY	FOREI	GN CURRENCY
NO.	DESCRIPTION OF WORKS	UN IT	QUANTITY	RATE	AMOUNT	Rate	Amount	Rate	Amount
4200	SPILLWAY								
4201	Earthwork for Pipeline of Spillway	m	450						· · · · · · · · · · · · · · · · · · ·
4202	Placed Riprap at Spillway	cu.m	20						
4203	Levelling Concrete, Class H	cu.m	10	mant all different for C de 19 € en de las rues rues ru					
1204	Reinforced Concrete, Class D	cu.m	80						
4205	Formwork to Concrete for Items 4204	sq.m	330						
1206	Reinforcing Bar to Concrete for Item 4204	ton	4						
207	Supply of Steel Pipe, \$600	m	35						
208	Supply of Morning Glory Steel Pipe in Head Tank	kg	600						
209	Supply & Installation of Dresser Coupling, Ø600	No.	1						
210	Installation of Steel Pipe for Items 4207 and 4208	m	40						
211	Supply & Installation of R.C. Pipe, Ø900	m	450		—				,

Y	FOREI	GN CURRENCY
unt	Rate	Amount
: : : : :		

						LOCAL	CUDDENCY	PODET		1.
ITEM NO.	DESCRIPTION OF WORKS	UNIT	QUANT IT Y	RATE	AMOUNT	Rate	CURRENCY		GN CURRENCY	
212	Supply and Installation of Miscellaneous Metal	kg	2,000			, Rate	Amount	Rate	Amount	
	SUB-TOTAL									•
	TOTAL									
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item NO	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCA	LCURRENCY	FOREI	GN CURRENCY
						Rate	Amount	Rate	Amount
5000	GENERAL								a dan asal ang dan saya na sa
5001	Allow for Temporary Works for Receiving Facilities	L.S.							
5002	Exploratory Drilling	m	10	a					
	SUB-TOTAL								
5100	RECEIVING WELL								
5101	Common Excavation	cu.m	1,400						
102	Fill & Backfill	cu.m	2,000						
103	Reinforced Concrete including PVC Pipe \$100, Class C	cu.m	550						
104	Precast Concrete Cover, Class D, including Form- works & Reinforcing Bar, etc.	cu.m	10						
105	Cinder Concrete, Class G	cu.m	30						
106	Levelling Concrete, Class H	cu.m	45						
07	Formwork to Concrete for Item 5103	sq.m	1,800						
08	Reinforcing Bar to Concrete for Items 5103	ton	55						999 - 1999

EM D.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAL	CURRENCY	FOREI	GN CURRENCY
						Rate	Amount	Rate	Amount
09	Supply & Installation of Miscellaneous Metal	kg	1,000						
10	Concrete Stair	No.	1						
	SUB-TOTAL								
00	RECEIVING RESERVOIR								
201	Stripping	sq.m	19,000						
02	Common Excavation	<u>çµ</u> , m	3,500						
03	Fill and Backfill	cu.m	500						
04	Embankment	cu.m	25,000						
))5	Sodding	sq.m	17,000						
6	Supply of EPT Rubber Sheet for Reservoir	sq.m	12,500						
7	Installation of EPT Rubber Sheet for Reservoir	sq.m	12,500						
18	Reinforced Concrete for Spillway, Class D	cu.m	50						
9	Shouldon Adalan O	cu.m	100						

TEM NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAI	L CURRENCY	FOREI	GN CURRENCY
						Rate	Amount	Rate	Amount
5210	Levelling Concrete, Class H	cu.m	50						
									
5211	Formwork to Concrete Pay Items 5208 and 5209	sq.m	750						
na la National						2			
212	Reinforcing Bar to Concrete Pay Item 5208	ton	15	·					
5213	Concrete Stair	No.	3	······					
	SUB-TOTAL								
. :									
300	VALVE BOX, PIT & PIPING WORKS								
					•				
5301	Supply of Steel Pipe, Ø1,350	m	190						
· .	providence in the second s A second secon A second secon							: }	
302	Supply of Steel Pipe, Ø1,200	m	50						
303	Supply of Steel Pipe, Ø900-700	m :	175						
304	Supply of Steel Pipe, Ø400-75	· · m · · ·	150						
305	Supply of Dresser Type Coupling, Ø1,350	No.	9						
306	Supply of Dresser Type Coupling, Ø1,200	No.	4						
				: .					
307	Supply of Dresser Type Coupling, \$900	No.	2						

ITEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	DAME		LOCAL	CURRENCY
NO.			QUANTITY	RATE	AMOUNT	Rate	Amount
5308	Supply of Dresser Type Coupling, Ø700	No.	8				
5309	Supply of Dresser Type Coupling, \$300	No .	2				
5310	Supply of Dresser Type Coupling, $\phi 200$	No.	3				
5311	Supply of Dresser Type Coupling, Ø150	No.	2	······································			
5312	Supply of Victaulic Shoulder Type Coupling, $\emptyset1,350$	No.	6				
5313	Supply of Victaulic Shoulder Type Coupling, ϕ 1,200	No .	2				
5314	Supply of Victaulic Shoulder Type Coupling, Ø900	No.					
5315	Supply of Victaulic Shoulder Type Coupling, Ø700	No.	4				
5316	Supply of Butterfly Valve, Ø1,350	No.	6				
5317	Supply of Control Valve, Ø1,200	No.	1				
5318	. Supply of Butterfly Valve, Ø1,200	No.	2				
5319	Supply of Butterfly Valve, Ø900	No.	1				
5320	Supply of Butterfly Valve, Ø700	No.	6		· · · · · · · · · · · · · · · · · · ·	·····	

		GN CURRENCY	
1t	Rate	Amount	
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ITEM	DESCRIPTION OF WORKS	UNIT	QUANT ITY	RATE	AMOUNT	LOCAL	CURRENCY
						Rate	Amount
5321	Supply of Sluice Valve, Ø300	No.	1				
5322	Supply of Sluice Valve, Ø200	No.	2				
5323	Supply of Sluice Valve, Ø75	No.	1				
5324	Installation of Steel Pipe, Ø1,350	m	190				
5325	Installation of Steel Pipe, ø1,200	m i	50				
5326	Installation of Steel Pipe, \$900-700	m	175	· · · · · · · · · · · · · · · · · · ·			······································
5327	Installation of Steel Pipe, Ø400-75	m	150				
5328	Installation of Dresser Type Coupling, \emptyset 1,350 & \emptyset 1,200	No.	13	· · · · · · · · · · · · · · · · · · ·			
5329	Installation of Dresser Type Coupling, \$900 & \$700	No.	10				
5330	Installation of Dresser Type Coupling, Ø300, Ø200 & Ø150	No.	7				
5331	Installation of Victaulic Shoulder Type Coupling, ø1,350 & ø1,200	No.	8				
5332	Installation of Victaulic Shoulder Type Coupling, \$900 & \$700	No.	5				
5333	Installation of Control Valve & Butterfly Valves, $\emptyset 1,350 - 1,200$	No.	9				

NCY		N CURRENCY	-
mount	Rate	Amount	
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ITEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	DATER		LOCAL C	URRENCY	FOREI	GN CURRENCY
NO .		UNII	QUANTIT	RATE	AMOUNT	Rate	Amount	Rate	Amount
5334	Installation of Butterfly Valve, \$900-700	No.	7						
5335	Installation of Sluice Valve, Ø300-75	No.	4						
5336	Earthworks of Steel Pipeline, Ø1,350-1,200	m	240						
5337	Earthworks of Steel Pipeline, Ø900-700	m	180						
5338	Earthworks of Steel Pipeline, Ø400-75	m	150						
5339	Supply & Installation of Reinforced Concrete Pipe, ø1,200	m	310						
5340	Supply & Installation of Reinforced Concrete Pipe, ø1,000	m	55						
5341	Earthworks for Reinforced Concrete Pipeline, Ø1,200- 1,000	m	380						
5342	Supply & Installation of Surface Valve Box	No.	2						9999 - 2014 - 4
5343	Common Excavation	cu.m	5,000						
5344	Fill & Backfill	cu.m	4,200						
5345	Base Concrete, Class D including Formworks, Rein- forcing bar, etc.	cu.m	20						
5346	Reinforced Concrete for Valve Box, Pits, Emergency Dissipator, etc., Class D	cu.m	350			:			

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	DECETVINC	FACILITIES
DIVISION 5.	RECEIVING	LUTTTTEO -
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	DIVISION 5. RECEIVING FACILITIES DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAL CURRENCY		FOREIGN CURRENCY		et/1100
TEM NO.						Rate	Amount	Rate	Amount	•
47	Levelling Concrete for Valve Box, Pits, Emergency Dissipator, etc., Class-H	cu.m	40							*
48	Formwork to Concrete Pay Item 5346	sq.m	1,600						1	-
49	Reinforcing Bar to Concrete Item 5346	ton	30							•
50	Supply & Installation of Miscellaneous Metal	kg	3,000							•
	SUB-TOTAL									
00	RECEIVING YARD									
01	Stripping	sq.m	27,000							a ta ta
02	Common Excavation	cu.m	20,500							
03	Fill	cu.m	26,000							
04	Sodding	sq.m	32,500							
05	Bitumen Seal Coat Paving for 6 m Road	sq.m	11,000							
06	Bitumen Seal Coat Paving for 3 m Road	sq.m	500							
07	Concrete Open Drainage Channel including Earthworks, Concrete,Formwork, etc.	m	2,600							

DIVISTON 5. RECEIVING FACILITIES

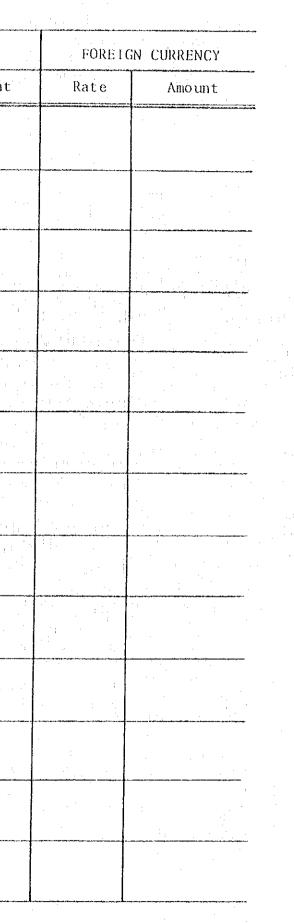
ITEM	DESCRIPTION OF WORKS	UNIT		DATE		LOCAL C	URRENCY	FOREI	GN CURRENCY
NO .			QUANTITY	RATE	AMOUNT	Rate	Amount	Rate	Amount
5408	Drainage Manhole including Earthwork, Concrete Formwork & Reinforcing Bar	No.	80						
5409	Supply & Installation of Reinforced Concrete Pipe, ø300	m	180						
	SUB-TOTAL								
5500	ELECTRICAL FACILITIES								
501	Supply of 380/220V Distribution and Valve Control Facilities	Unit	· · · · · · · · · 1						
502	Supply of Measuring Instrument Panel	Unit	1						
503	Supply of DC/AC Uninterruptable Power Source Cubicle	Unit	1	i i					
504	Supply of Diesel Engine Generator for Power Supply	Unit	1						
505	Supply of Cables & Wires	L.S.							
506	Supply of Spare Parts & Tools	L.S.							· · · · · · · · · · · · · · · · · · ·
507	Transportation of Equipment and Materials for Items 5501 - 5506	L.S.							:
08.	Installation of Electrical Facilities and Appurtenance for Items 5501 - 5506	L.S.							
	SUB-TOTAL DIVISION 5 TOTAL		· · · ·						

DIVISION 6. CONTROL SYSTEM

ITEM NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAL	CURRENCY	FOREIC	GN CURRENCY
NU.						Rate	Amount	Rate	Amount
6000	CONTROL SYSTEM								
5001	Supply of Water Level Measuring Equipment for Intake Tower	unit	2						
5002	Supply of Water Flow Measuring Equipment for Intake Tower	unit	1						
003	Supply of Water Level Measuring Equipment for Head Tank	unit	2						
004	Supply of Water Flow Measuring Equipment for Receiving Facilities	unit							
005	Supply of Water Level Measuring Equipment for Receiving Facilities	unit	1						
006	Supply of Cables & Wires Materials for Items 6001 - 6005	L.S.							
007	Installation of Measuring Eqipment, Cable & Wires for Items 6001-6006	L.S.							
008	Supply of Radio Communication Equipment	unit	2						
)09	Supply of Guyed Tripole Tower	unit	2						
)10	Supply of Spare Parts for Items 6001-6005 and 6008	L.S.							
)11	Installation of Radio Communication Equipment	L.S.							
012	Supply & Installation of Floating Type Water Level Gauge for Head Tank	unit	1						

	DIVISION 6. CONTROL SYSTEM	• •								· · · .
ITEM	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	LOCAI	L CURRENCY	FOREIG	IN CURRENCY	••••••••••••••••••••••••••••••••••••••
NO.						Rate	Amount	Rate	Amount	• • •
6013	Tripole Tower Foundation including Earthwork, Concrete, Formwirk & Reinforced Bar	No.	2							
	SUB-TOTAL									-
	DIVISION 6 TOTAL									-
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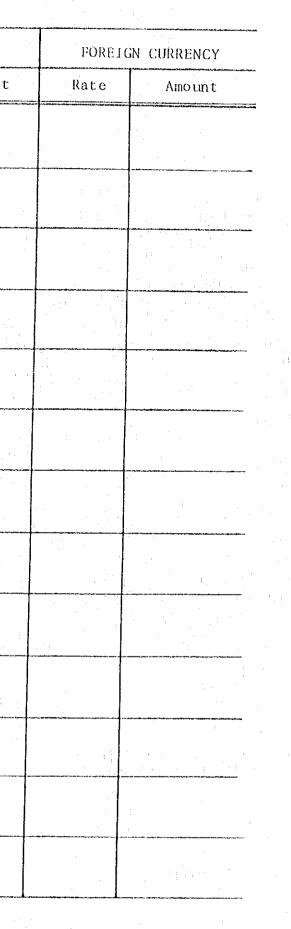
ITEM	DESCRIPTION OF WORKS	11817/0		DAGDD		LOCAL C	URRENCY
NO.	DLOCKIFTION OF WORKS	UNIT	QUANT 1'TY	RATE	AMOUNT	Rate	Amount
7000	TEMPORARY WORKS						
7001	Allow for Temporary Works of Building Works	L.S.					
:	SUB-TOTAL						
7100	BUILDING WORKS AT DOK KRAI						
7101	Building Works of Dok Krai Control House	L.S.					
7102	Sewerage & Drainage System for Building Item 7101	L.S.		e de la companya de l La companya de la comp			
7103	Building Works of Dok Krai Substation	sq.m	102				
7104	Power Supply System for Dok Krai Substation	L.S.					
7105	Fence around Dok Krai Substation	m	120				
7106 ·	Building Works of Dok Krai Administration Office	sq.m	98				
7107	Water Supply System for Building Item 7106	L.S.		·			
7108	Sewerage & Drainage System for Building Item 7106	L.S.					
7109	Power Supply System for Building Item 7106	L.S.					. <u></u>



TTEM	DESCRIPTION OF WORKS	UN IT	QUANTITY	RAT E	AMOUNT	LOCAL CU	IRRENCY	FORE 1	GN CURRENCY
NO .			QUANTITI		AMOUNT	Rate	Amount	Rate	Amount
7110	Building Works of Garage & Warehouse at Dok Krai	sq.m	80						
7111	Water Supply System for Building Item 7110	L.S.							
7112	Power Supply System for Building Item 7110	L.S.							
7113	Building Works of Dok Krai Compressor Room	sq.m	22						
7114	Power Supply System for Building Item 7113	L.S.							
7115	Building Works, Grade 2, of Dok Krai Camp	unit	2						
7116	Building Works, Grade 3, of Dok Krai Camp	unit	2					· · · · · · · · · · · · · · · · · · ·	
7117	Building Works, Grade 4, of Dok Krai Camp	unit	3					· · · · · · · · · · · · · · · · · · ·	
7118	Building Works, Grade 5, of Dok Krai Camp	unit	1						
7119	Land Grading for Dok Krai Camp	L.S.							
7120	Road Paving, 6m width, for Dok Krai Camp	sq.m	5,000						
7121	Road Paving, 3m width, for Dok Krai Camp	sq.m	700						
7122	Sewerage & Drainage System for Dok Krai Camp	L.S.							

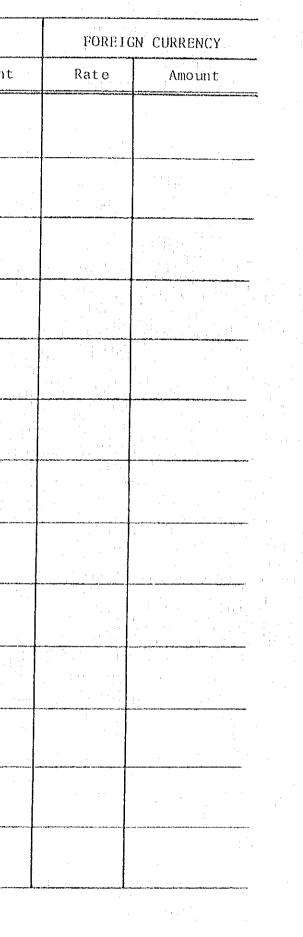
ITEM	DESCRIPTION OF WORKS	UNIT	OLIA APT TON	DATE		LOCAL C	URRENCY
NO		UNIT	QUANTTTY	RATE	AMOUNT	Rate	Amount
7123	Water Supply System for Dok Krai Camp	L.S.					
7124	Power Supply System for Dok Krai Camp	L.S.	-				
7125	Elevated Water Tank for Building at Dok Krai	L.S.			-		-
· · · · · · · · · · · · · · · · · · ·	SUBTOTAL						
7200	BUILDING AT HEAD TANK						
7201	Building Works at Head Tank Maintenance Hut	sq.m	30				
7202	Water Supply System for Building Item 7201	L.S.	- 				
7203	Sewerage & Drainage System for Building Item 7201	L.S.					
7204	Power Supply System for Building Item 7201	L.S.					
7205	Building Works, Grade 4, of Head Tank Camp	unit	4				
7206 .	Building Works, Grade 5, of Head Tank Camp	unit	1				
7207	Land Grading for Head Tank Camp	L.S.					
7208	Guard Hut and Gateway for Head Tank Camp	L.S.					

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	DIVISION 7. BUILDING WORKS										
						LOCAL CU	RRENCY	FOREIC	GN CURRENCY		
ITEM NO.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE	AMOUNT	Rate	Amount	Rate	Amount		
7209	Fence around Head Tank Camp	m	200								
7210	Water Supply System for Head Tank Camp	L.S.								-	
7211	Road Paving, 6m width, for Head Tank Camp	sq.m	700								
7212	Road Paving, 3m width, for Head Tank Camp	sq.m	250				· · · · · · · · · · · · · · · · · · ·				
7213	Sewerage & Drainage System for Head Tank Camp	L.S.								· · ·	
7214	Power Supply System for Head Tank Camp	L.S.									
7215	Elevated Water Tank for Building at Head Tank	L.S.								· · · ·	
· · · · · · · · · · · · · · · · · · ·	SUB-TOTAL									•••	
7300	BUILDING WORKS AT MAB TA PUD										
7301	Building Works of Mab Ta Pud Administration Office	sq.m	214				1 			•	
7302	Water Supply System for Building Item 7301	L.S.								· ·	
7303	Sewerage & Drainage System for Building Item 7301	L.S.								_	
7304	Building Works of Repairing Shop, Warehouse, and Garage at Mab Ta Pud	sq.m	125								

ITEM	DECORTECTOR OF MOREO					LOCAL C	URRENCY
NO.	DESCRIPTION OF WORKS	UNIT	QUANT I'TY	RATE	AMOUNT	Rate	Amount
7305	Water Supply System for Building Item 7304	L.S.					
7306	Power Supply System for Building Item 7304	L.S.					
7307	Building Works of Mab Ta Pud Diesel Generator Room	sq.m	22				
7308	Building Works, Grade 1, of Mab Ta Pud Camp	unit	1				
7309	Building Works, Grade 2, of Mab Ta Pud Camp	unit	5				
7310	Building Works, Grade 3, of Mab Ta Pud Camp	unit	9				
7311	Building Works, Grade 4, of Mab Ta Pud Camp	unit	11				
7312	Building Works, Grade 5, of Mab Ta Pud Camp	unit	2				
7313	Land Grading for Mab Ta Pud Camp	L.S.					
7314	Guard Hut and Gateway for Mab Ta Pud Camp	L.S.					
7315	Fence around Mab Ta Pud Camp	m	1,350				
7316	Water Supply System for Mab Ta Pud Camp	L.S.					
7317	Power Supply System for Mab Ta Pud Camp	L.S.					······



ITEM	DECODINATION OF HODIC					LOCAL C	URRENCY
NO.	DESCRIPTION OF WORKS	UNIT	QUANT ITY	RATE	AMOUNT	Rate	Amoun
7318	Sewerage System for Mab Ta Pud Camp	L.S.		ana a fao an an ann an			
7319	Flag Pole for Mab Ta Pud Camp	L.S.					-
7320	Elevated Water Tank with Pump for Buildings at Mab Ta Pud	L.S.					
	SUB-TOTAL						
	DIVISION 7 TOTAL						

FOREIGN CURRENCY unt Rate Amount -----.

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NO.	DESCRIPTION OF WORKS		UNIT	QUANT ITY	RATE	AMOUNT	Rate	Amount	Rate	Amount
8000	TEST OPERATION AND COMMISSIONING							<u></u>		
8001	Test Operation & Staff Training		L.S.							
8002	Commissioning		L.S.							
	SUB-TOTAL									
· · · · · ·	DIVISION 8 TOTAL			-						
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				DATE	ΔΜΟΠΝΤ	LOCAL CURRENCY		FOREIGN CURRENCY	
ITEM NO.	DESCRIPTION OF WORKS	UN IT	QUANT ITY	RATE	AMOUNT	Rate	Amount	Rat e	Amount
9000	CONTINGENCY	Provi- sional Sum							
								4 () 	
								-	

DAYWORK SCHEDULE

- The Daywork Schedule shall be read in conjunction with the Conditions of Contract. 1.
- 2. Work shall only be executed by Daywork on the written order of the Engineer.

3.

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6.

The Tenderer, when tendering shall complete Daywork Schedule including any additional items of labour, materials and plant which he wishes to be included in the Schedule.

The rate set out in the Daywork Schedule shall cover all expenses and allowances of overhead nature, including overhead charges, profit, taxes, insurances, and any other expenses related.

Payment for labour and the hire of plant shall be reckoned from the time of starting the particular item of Daywork, either at the beginning of or during the course of a "normal working day" (defined as 8 hours excluding meal breaks and rest periods). Payment for Daywork outside the "normal working day" shall only be made on the written instructions of the Engineer.

Unless the Engineer shall specifically agree to the contrary the Contractor shall not be entitled to any payment in respect of items of plant used on daywork for which rates are not included in this table.

DAYWORK SCHEDULE - LABOUR

UNIT

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RATE

Common Labour Skilled Labour Fireman Carpenter Maison Electric Worker Plasterer Steel Worker Driver Heavy Equipment Operator Assistant Heavy Equipment Operator Diver Welder Concrete Worker Foreman

CLASS OF LABOUR



DAYWORK SCHEDULE - MATERIAL

MATERIAL CLASSIFICATION UNIT Cement ton Sand for Concrete cu.m Grave1 cu.m Unscreen Gravel cu.m Deformed Bar ton Cobble cu.m Diesel Gasoline 1 : Gasoline 1 Timber cu.m Timber Board cu.m

RATE

DAYWORK SCHEDULE - PLANT

PLANT CLASSIFICATION

Bulldozer, 110 PS, 11 t Bulldozer, 140 PS, 15 t Backhoe Shovel, 100 PS, 0.6 m^3 Wheel Loader, 100 PS, 1.5 m^3 Dump Truck, 8 t Motor Grader, 125 PS, Bread, W = 3.7 m Water Supply Pump, 5 PS Drainage Pump, 7.5 PS Pontoon, 200 t Barge, 100 t Motor Boat, 10 PS Truck Crane, 10 t Truck Crane, 20 t Tank Lorry, 6 t Pot Concrete Mixer, 0.2 cu.m Tire Roller, 8-12 ton

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