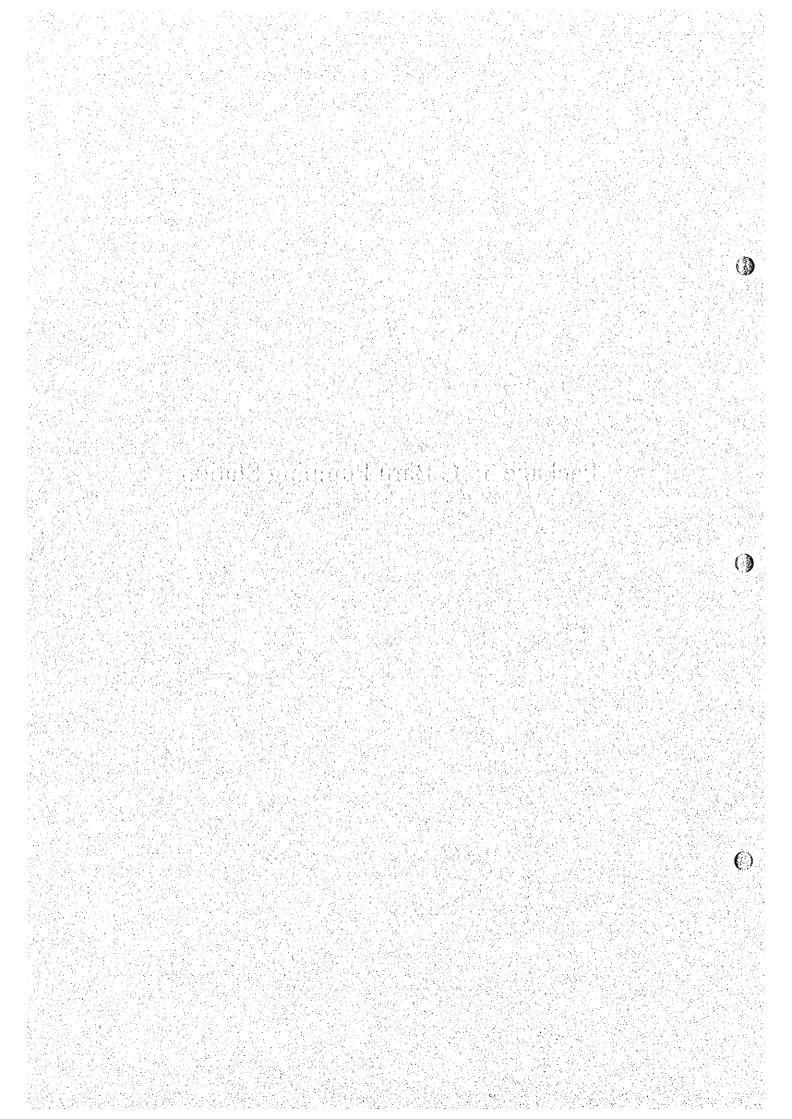
Package 3: C Baru Pumping Station



Name of Structure	BARU PUMPING STATION	Category Calculation	VOLUME CALCULATION	Page	1/12

SUMMARY OF BARU PUMPING STATION WORK VOLUME

1.	STRUCTURE EXCAVATION	. .	855 m³
2.	STRUCTURE EMBANKMENT (SANDY SOIL)	= .	880 m ³
3.	LEVELING CONCRETE, TYPE E	= .	38.50 m³
	FORM WORK	€ ; =	20.80 m ²
4.	CONCRETE FOR STRUCTURE, TYPE CI	· =	948 m³
	FORM WORK	=	1,310 m ²
5.	REINFORCING STEEL BAR	=	49,094 Kg
6.	WET STONE MASONRY	=	26.50 m ³
7.	SECONDARY CONCRETE FOR SCREW (C2)	=	83 m ³
8.	CONCRETE SHEET PILE (W=200, t=20)	-	916 m ′
9.	STEEL SHEET PILE (W=400)		387 m ′
10.	CONCRETE PILE \$ 500	=	2,904.8 m'
11.	GABION MATTRESS (3,000 x 1,500 x 500)	-	33.34 m ³
12.	SAFETY HAND RAIL, TYPE I		858 Kg
13.	SAFETY HAND RAIL, TYPE II	= ,.	481 Kg
14.	DOWEL BAR (φ 19, L=1,240)	=	118.90 Kg
15.	WATER STOP (W=200, t=20)	=	29.20 m
+ + + + - *	BACK FILL		151.41 m ³
17.	POINTING		37.74 m ²

Name of Structure BARU PUMPING STATION

Category Calculation

WORK VOLUME

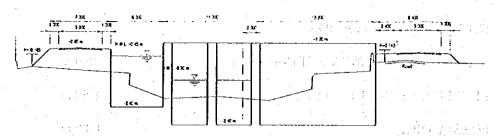
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1. STRUCTURE EXCAVATION



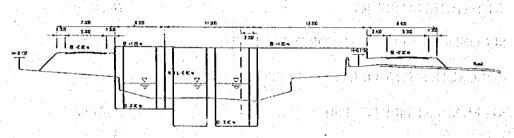


$$1.48 \times 10 = 14.80 \,\mathrm{m}^2$$

$$1.18 \times 8.2 = 9.676 \text{ m}^2$$

Total A =
$$24.476 \text{ m}^2$$





$$1.57 \times 10$$
 = 15.70 m²

$$1.055 \times 8.2 = 8.651 \text{ m}^2$$

Total A =
$$24.351 \text{ m}^2$$

Area of Excavation =
$$(24.476 + 24.351)/2 = 24.414 \text{ m}^2$$

Volume of Excavation =
$$24.414 \times 35$$
 = 855 m^3

2. STRUCTURE EMBANKMENT WITH SANDY SOIL

Area BA-38 =
$$\frac{1.92 + 1.2 + (1.2 - 0.23)}{2} \times 12$$
 = 24.54 m²

Area BA-37 =
$$\frac{2.03 + 1.2 + (1.2 - 0.14)}{2} \times 12$$
 = 25.74 m²

A =
$$(24.54 + 25.74)/2$$
 = 25.14 m^2

$$L = 35 \text{ m}$$

$$V = 25.14 \times 35 = 880 \text{ m}^3$$

3. LEVELING CONCRETE TYPE E

1

Volume = $0.1 \times 11 \times 35$ = 38.50 m^3

Name of Structure	BARU PUMPING STATION	Category Calculation	WORK VOLUME	Page	3 /12
4. CO	NCRETE FOR STUCTUR	E	why it is		
a. ·	Section B-B (L=10,000)				
	- Walls $=$ (3 x	1.0 x 4.9 x 10.0)		+147 m³	
	3 x	3.0 x 0.4	: 	-3.6 m³	
	3 x	2.4 x 0.4		-2.88 m³	•
	Tota	al for Walls	=	140.52 m³	
	- Bottom Slab = 0.8	x 11 x 10 - (2 x 1.0	$0 \times 1.2 \times 0.25) =$	87.40 m³	
	- TOE = (0.4	+ 0.2) / 2 x 0.8 x ([11 + 10] = =,	5.04 m³	
	- Bridge No. 2 & 1 = (0.4	x 3 x 11) + (0.4 x	2.4 x 11) =	23.76 m³	
	Sub Total Section B-B			256.72 m³	**
b.	Section F-F (L=8,206)				
	- Walls $=$ (3 x	1.0 x 6.0 x 8.206)		+147.71	m³
	3 x	3.0 x 0.40		-3.60	m^3
	Tota	al for Walls		144.11	m^3
	- Bottom Slab = 0.8	x 11 x 8.206 – (2 x	$(1.0 \times 1.4 \times 0.25) =$	71.51	m³
	- TOE = (0.4	+ 0.2) / 2 x 0.8 x	8.206 =	1.97	m³
	- Bridge No. 1 = (0.4	x3x11)		13.20	m³
	Sub Total Section F-F		=	230.79	m³
	Bridge 0.4 x 3 x 2 x 4.4	= 10.:	56		
	0.4 x 3 x 2 x 4.4	= 10.:	56 y + 3 + 5 × 4 + 3 ×		
	Total	= 21.	12		
c.	Section C-C (L=7,794 m)		San Francis		
	- Walls = $(3 x)$	x 1.0 x 5.076 x 7.79	94) =	118.69 m³	
	- Bottom Slab = (0.9	024 x 11 x 7.794		79.22 m³	
	att satte en an ar trock of the five	$(+0.2)/2 \times 0.8 \times 0.8$	9.293 =	2.23 m³	
	- Bridge = 0.5	x 0.693 x 11		3.81 m ³	
	Sub Total Section C-C			203.95 m³	
d.					
	- Box Culvert (L = 7.00 n	1)			
	0.5 x 11.225 x 7.0		= 39.29 m ³		
	0.8 x 11.225 x 7.0		= 62.86 m ³		
	1.9 x 1.225 x 7.0		= 16.29 m ³		
	2 x 1.9 x 1.0 x 7.0		= 26.60 m ³		
	Total		= 145.04 m ³		e y t
	- Box Culvert (L = 2.00 n	n)			
	0.5 x 11.225 x 2.0		= 11.23 m ³		

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	STATION	Calculation	WORK VOLUME	Page	4/12
	0.8 x 11.225 x 2.0		= 17.96 m ³	!	
	4.3 x 1.225 x 2.0		= 10.54 m ³		
	2 x 4.3 x 1.0 x 2.0		= 17.20 m ³	SHILLETT ST	
	Total		= 56.93 m ³		
•	- Pump Block = $\frac{1.269}{2}$	$\frac{\times 0.7}{\times 2 \times 4.0}$	= 3.55 m ³		
	- TOE= $\frac{0.4 + 0.2}{2}$	×(11.225 + 9.0)	$= 6.07 \text{ m}^3$		•
traction of the state of	Sub Total D-D Section E-E	den kerten e Kortografisch	= 211.59 m ³		
	and the second second	10.0 x 9.0	= 45.00 m ³		
	Total a + b + c + d + e T STONE MASONRY		= 948 m³		
	$\frac{0.3+1.15}{2} \times 1.9 \times (9.573)$ CONDARY CONCRETE I		= 26.29 m ³		
ν=	$2\times4\times2.0-(\frac{1}{2}\times\pi\times15^2)$	×2)}×9.293	= 83 m³		
7. CON	NCRETE SHEET PILE (W	V = 500, t = 220)			
$\left\{\frac{21}{0}\right\}$	$\frac{.225}{0.5} + \frac{9}{0.5} + 10 $ $\times 13$		= 916 m'		
8. STE	EL SHEET PILE (W = 40)0)			
$\{\frac{10.0}{0.4}$	$\frac{0}{1} + \frac{8.206}{0.4} + \frac{11}{0.4} \times 5.3$		= 387 m'		
9. CON	ICRETE PILE Ø 500				
a. Se	ection B-B: 6 x 7 x 21.6		= 907.2 m'	er og skriver. Det skriver	
	ection F-F: 6 x 8 x 20		= 960 m'		
	ection C-C: 4 x (21.9 + 23	3.6 + 25.2)	= 282.8 m'		
	ection D-D: $4 \times 4 \times 25.8$		= 412.8 m'		
	ection E-E: 3 x 4 x 28.5		= 342 m'		
	I Length of Concrete Pile	Ø 500	= 2,904.8 m'		

Name of Structure	BARU PUMPING STATION	Category Calculation	WORK VOLUME	Page	5/12
10. GA	BION MATTRESS (3,000	0 x 1,500 x 500)			¥
V ==	$(11 + 11.225) \times 3.0 \times 0.5$	50 - 1 - 1 - 1 - 1 - 1 - 1 - 1	= 33.34 m ³		
11. RE	NFORCING STEEL BAF	;			
1. *	Reinforcing bar for structu	ure	= 48,623 kg		
•	(See table of Bar Weight)				
	Anchor bar for secondary				1 M
	a) For stop log grove		in the second of		
	$N = 8 \times 2 \times 2$	= 32 nos.	ing the first of the contract		
	8 x 2 x 2	= 32 nos.		i de la companya. La redigio ya Kara	
	3 x 10 x 4	= <u>120 nos</u> .	en e	·	•
	in the second se	184 nos.			
	b) For screen support				
		= 48 nos.			
	c) for screw support	10			
	$N = 3 \times 3 \times 2 = 3 \times 3 \times 2$ Total (a) + (b) + (a) (b)				
	Total (a) + (b) + (c) (N Weight of anchor bar =		= 167.25 kg	ii jama ja T	
3	Anchor Pad for steel stren	of a last of the control of a	- 101.23 ng		
	For $L = 650 \rightarrow N = 10 x$				
	For L = $1050 \rightarrow N = 10 x$				
Control of the Control of	Weight = $\{(0.65 \times 40) + ($		= 303.28 kg		4 1. 4 1.
	TOTAL WEIGHT OF 1, 2			r Signatur Bank ind	
	WEL BAR				
12. DO	WEL BAR				
We	ight $= \left\{ \left(\frac{11}{0.5} + 1 \right) \right\}$	$+\left(\frac{9.5}{0.5}+1\right)\times1.24$	× 2.23 = 11	8.90 kg	
13. FOI	RM WORK				
a.	Section B-B (L=10 m)			grander (f. 1945). Navel og skalender Oktober og skalender	itaria de la latera de la composition della comp
	$10 \times (5.7 + 0.8) + 10 \times 5.7$	+ 10 × 4 × 4.9 + 10 ×	4×		
	$\sqrt{0.15^2 + 0.15^2} + 10 \times \sqrt{0}.$	$4^2 + 0.8^2 + 2 \times 4 \times 4$	4.9×		
	$0.3 + 4 \times 4.9 \times 0.65 + 2 \times \pi$	$\times 0.5 \times 4.9 + \frac{1}{2} \pi \times 0$	$0.5 \times 4.9 = 379.17$	72 m ²	
b.	Section B ₁ -B ₁ (L=8.026 m				
	$8.026 \times (7.7 + 0.8) + 8.026$	en e	6.4		

 $+8.026 \times 4 \times \sqrt{0.15^2 + 0.15^2} + 8.026 \times \sqrt{0.4^2 + 0.8^2} = 349.476 \text{ m}^2$

Name of Structure STATION Category Calculation WORK VOLUME Page 6	/12
c. Section C-C (L=7.794 m)	
$7.794 \times (6.0 + 0.8) + 7.794 \times 6.0 + 7.794 \times 4 \times 5.076$	
$+7.794 \times \sqrt{0.4^2 + 0.8^2} + 2 \times 7.794 \times 0.5 \times \pi \times 3.0 = 338.440 \text{ m}^2$	
d. Section D_1 - D_1 (L=2.0 m)	
$2.0 \times (3.2 + 0.8) + 2.0 \times 3.2 + 2.0 \times 4 \times 1.9 + 2.0 \times 4.0 \times 2$	
$+4 \times 2 \times 2.0 \times \sqrt{0.15^2 + 0.15^2} + 2.0 \times \sqrt{0.4^2 + 0.8^2} = 50.783 \text{ m}^2$	
e. Section D-D (L=7.0 m)	
$7.0 \times (3.2 + 0.8) + 7.0 \times 3.2 + 7.0 \times 4 \times 1.9 + 7.0 \times 4.0 \times 2$	٠
$+4 \times 2 \times 7.0 \times \sqrt{0.15^2 + 0.15^2 + 7.0 \times \sqrt{0.4^2 + 0.8^2}} = 177.740 \text{ m}^2$	
f. Slab (9 x 10 m)	
$2 \times 10 \times 0.5 + 9 \times 0.5$ = 14.50 m ²	
Total Form Work = 1,310.111 m ²	
14. SAFETY HAND RAIL	
TYPEI	
(A) $L = 11.00 \text{ m}$	
Column: $h = 800 \text{ mm}$	
$\emptyset = 42.7 \mathrm{mm}$	
t = 2.3 mm	
$L = 11.00 \mathrm{m}$	
Number of Column = $11.00 / 166 + 1 = 8 \text{ nos.}$	
Weight = $(8 \times 0.8) \times 2.29$ = 14.65	
Horison: Upper Steel (\emptyset 60.5, t = 5 m)	
$\mathbf{L} = \mathbf{L} + \mathbf{L} = \mathbf{L} + \mathbf{L}$	
Weight = 11×5.57 = 61.27 kg	1945 1947 1948
Lower Steel (\emptyset 42.7, t = 2.3 m)	5 v (*)
Weight = 11×2.29 = 25.19 kg	
Total = 101.11 kg	
(B) $L = 3 + 1.2 = 4.2 \text{ m}$	
Column (420 / 166 +1) = 3 nos.	
Weight = $(3 \times 0.8) \times 2.29$ = 5.49 kg	
Horison: Upper Steel	
$\mathbf{L} = 4.2\mathbf{m}$	
Weight = 4.2×5.57 = 23.39 kg	

Name of Structure	BARU PUMPING STATION	Category Calculation	WORK VOLUME	Page	7/12
	Lower Steel			1	
	L = 4.2	nı	Tr	1 4 m 1	
	Weight = 4.2	x 2.29	= 9.62	kg ·	
	Total		= 38.5	kg	•
(C1)	L = 4 m		t. e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Column (400 / 166 +1)		= 4 r	ios.	
	Weight =	= 12 4 x 0.8	= 3.2	kg i	
(C2)	L=3 m				Party Comment
	Column 3 / 1.66	= 2 nos.		Para Carlo	
(C3)	L=4 m	i Riju kataki			
· · · · · · · · · · · · · · · · · · ·	Column 4/1.66 =	= 3 nos.		100	
(C4)	L=3 m	i kan kagaran			
	Column 3 / 1.66	= 2 nos.			
	Total number of Column	= 4 + 2 + 3 + 2	= 11 r	ios.	
	Weight	$= 11 \times 0.8 \times 2.1$	29 = 20.15	kg	
	Total Length of Upper Steel	= 4+3.1+4+	3.1 = 14.2	2 m	
	Weight	$= 14.2 \times 5.57$	= 3 79.09	kg	
	Total Length of Lower Stee	1 = 4+3.1+4+	3.1 = 14.2	2 m	4
	Weight	$= 14.2 \times 2.29$			en e
	Total Weight		= 131.76	kg	
(D)	For $D = C$				
	Weight of Column	= 20.15 kg	ing the state of t	ing senior di	
	Weight of Upper Steel	= 79.09 kg			
	Weight of Lower Steel	= 32.52 kg			
	Total Weight	= 131.76 kg		en e	
(E)	For El, L=4 m				
<u>, , , , , , , , , , , , , , , , , , , </u>	Number of Column	= (4000/1660	+1) = 4 n	ios.	
	For E2, $L = 5.206 \text{ m}$		in film the billion of the billion o		
	Number of Column	= (5206/1660			
	For E3 = E2				
	Number of Column	= (5206/1660) = 2 n	ios.	
	Total Number of Column	= 4+2+2	/ = 8 n		
	Weight	$= 8 \times 0.8 \times 2.29$			
	Total Length of Upper Steel	r vije in klassi i sti			
	Weight	$= 14.412 \times 5.5$			
	Total Length of Lower Stee				
	Total renktii of rowei ofee	1 - 4 1 J.ZVU T .		> III	

Name of BARU PUMPING STATION	Category Calculation	WORK VOLUME	Page	8/12
Weight	$= 14.412 \times 2.2$	9 = 33.00	kg	
Total Weight		= 127.93	kg	
(F) For $F = D$				
Weight of Column	= 14.66 kg	5		
Weight of Upper Steel	= 80.27 kg	3	: · · · ·	(1)
Weight of Lower Steel	= 33.00 kg		in the Market	
Total Weight	= 127.93 kg	1 1		
(G) $L = 5.206$			en e	
Number of Column	= (5.206/1.66	(+1) = 3 n	OS.	
Weight	$= 3 \times 0.8 \times 2.2$	9 = 5.49	kg	
Weight of Upper Steel	$= 5.206 \times 5.57$	The second secon	<u> </u>	
Weight of Lower Steel	the second secon	and the second second	_	engi samu sa Kabupatèn samu
Total Weight		= 46.40	, ~ .	
(H) $L = 4.000$		and the second s		
Number of Column	= (4000/1660	+1) = 3 n	os.	•
Weight	$= 3 \times 0.8 \times 2.2$		kg	•
Weight of Upper Steel		= 22.28	ra Tarana	
Weight of Lower Steel		= 9.16	•	
Total Weight		= 36.93	. T.	
(I) For I = H		30.33	^8	
Weight of Column	= 7.33 kg	· · · · · · · · · · · · · · · · · · ·		
Weight of Upper Steel	e in the second of the second			
Weight of Lower Steel	_			
Total Weight	= 36.93 kg			
(P) $L = 693$	- 30.93 Kg			
Number of Column				
Weight of Column	$= (2 \times 0.8) \times 2.$		os.	
Weight of Upper Steel				
		= 3.86		
Weight of Lower Steel	≠ 0.693 x 2.29			
Total Weight		= 9.10	kg	
(Q) For $Q = P$				
Weight of Column	= 3.66 kg			
Weight of Upper Steel	i da karanta da karant			
Weight of Lower Steel	and the control of the present of the		ersa i Irupi. Tarah	
Total Weight	≠ 9.10 kg			

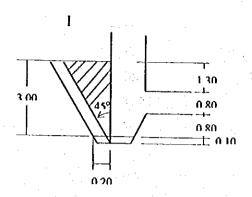
Name of Structure	BARU PUMPING STATION	Category Calculation	WORK VOLUME	Page	9/12
ТҮРЕ І	I				
(J) I	$=\sqrt{7.101^2+(5.3-1.2)^2}$	= 8.200 m	'‡ - ±' -		
1	lumber of Column		= 6 n	; iOS.	
V	Veight of Column	$= 6 \times 0.8 \times 2.2$	9 = 10.99	kg	•
V	Veight of Upper Steel	$= 8.2 \times 5.57$	= 45.67	kg	
V	Veight of Lower Steel	$= 8.2 \times 2.29$	= 18.78	kg	
1	otal Weight		= 75.44	kg	
(K) F	or K, L, M, N & O = J				
Γ	otal Weight of Column	$= 5 \times 10.99$	= 54.9	kg	
1	otal Weight of Upper Stee	$e1 = 5 \times 45.67$	= 228.3	kg	
r	otal Weight of Lower Stee	$e1 = 5 \times 18.78$	= 93.9	kg 🗀	na. T
1	otal Weight		= 377.1	kg	
Total of	Column (A to Q) = 106	nos.			
Total W	'eight = (0.1	$1 \times 0.1 \times 0.01 \times 7.86$	00) x 106 🚊	83 kg	
Number	of Anchor bolts $= 2 x$	106	= 21	2 nos.	
TYPE I		ogs Afrika. Standard og skalende			
Total W	eight = (A + B + C + I))+E+F+G+H	+ I + P + Q) + (70 /	106) x 83	politica Politica
	= 803.45 + 54.81				
*	= 858.2 kg			enter y 1860. Politica	
TYPE I					
Total W	/eight = (+K+ .+N	1 + N + O) + (36 / 1			
rotal 11	= (75.44 + 377.1		.00) 1.03	A STATE OF	£1.
	= 480.73 kg				
Total W	eight = 858.2 + 480.73	in washing to prove the			
	= 1,338.99		en e	Marija Posta	
			The State of		
15. PO	NTING				
$\sqrt{(1.9)^2}$	$+(0.95)^2 = 1.873$				
Length	= (9.573 + 1	0.575)	= 20.148 m		
Area	$= (3.373 \times 1)^{-1}$	精神的 医氯化二氯化	$= 37.74 \text{ m}^2$		
16. WE	EP HOLE DIA 50				
Length	= (20.148/	1.5 + 1)	= 15 nos.		
e de en jour de				1 Teles	

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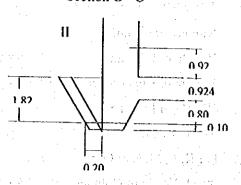
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Name of Structure	BARU PUMPING STATION	Category Calculation	WORK VOLUME	Page	10/12

17. BACK FILL









Length =
$$(11 + 1.5 + 3.00)$$
 = 15.5 m Length = 4 m
 $(11 + 18.25) \times \frac{3 \times 3}{2} = 131.625 \text{ m}^3$

I =
$$(11 + 18.25) \times \frac{0.2 + 3.2}{2} \times 3 = 149.18 \text{ m}^3$$

$$II = \frac{0.2 + 2024}{2} \times \frac{4}{2} = 2.23 \text{ m}^3$$

Total =
$$149.18 + 2.23$$
 = 151.41 m^3

18. FORM WORK CONCRETE TYPE E

Section B - B

$$(11+10) \times 2 \times 0.1 = 4.2 \text{ m}^2$$

Section F - F

$$(11 + 8.206) \times 2 \times 0.1 = 3.84 \text{ m}^2$$

Section C-C

$$(11 + 9.00) \times 2 \times 0.1 = 4.00 \text{ m}^2$$

Section D - D

$$(21.223 + 9) \times 2 \times 0.1)$$
 = 6.05 m²

Sub Total =
$$18.09 \text{ m}^2$$

$$10 + 8.206 + 9 \times 0.1$$
 = 2.72 m²

Total =
$$20.81 \text{ m}^2$$

19. WATER STOP W = 200 mm

$$3 \times 6.4 + 10 = 29.2 \text{ m}'$$

	SCAFOLDING AND		. 4 (1)	/ :	
Name of Structure	FORM SUPPORT, FOR BANDARHARJO DRAINAGE SYSTEM	Category Calculation	WORK VOLUME	Page	11/12

SUMMARY OF SCAFOLDING AND FORM SUPPORT VOLUME, FOR BANDARHARJO DRAINAGE SYSTEM

No.	VOLUME STRUCTURE	SCAFFOLDING (m²)	FORM SUPPORT (m³)
- 1	BARU PUMPING STATION	1049	549
2	BARU PUMPING STA. GATE	350	120
3	BARU CONVEYANCE CHANNEL	6574	2768
4	BARU CONVEYANCE CHANNEL INLET STRUCTURE	150	35
5	BARU CONVEYANCE CHANNEL OUTLET'STRUCTURE	106	
6	BANDARHARJO EAST SECONDARY CHANNEL	1166	491
7	BANDARHARJO EAST SECON- DARY CHANNEL OUTLET STR.	90	31 - 11 - 13 - 13 - 13 - 13 - 13 - 13 -
8	BARU RETARDING POND INLET STRUCTURE NO. 1		77 (1) (1) (1) (1)
9	BARU RETARDING POND INLET STRUCTURE NO. 2		42
10	FUEL TANK BOX FOR BARU PUMPING STATION	133	62
	TOTAL	9618	4195

Name of	BARU PUMPING STATION	Category	110 DY 10 THAT	12 12 1 18 1 1 1 1 1
Structure	SCAFFOLDING AND FORM SUPPORT	Calculation	WORK VOLUME	Page
1. SCAF	FOLDING			
(A) S	ection A - A (L=10.0 m)			
(6	$0.5 + 5.7 + 4 \times 4.9$) x 10.0	는 경우 발생 가수가 년 도	= 318	m²
{($\frac{1}{2}$ x 2 x π x $\frac{1.0}{2}$) + $(\frac{1}{4}$ x π x	$\frac{1.0}{2}$)} x 4.9	= 9.621	m²
To	otal A		= 327.621	m²
(B) Se	ection F - F (L=8.206 m)			
(7	$.6 + 6.8 + 4 \times 6.9$) x 8.206		= 315.110	m²
(C) Se	ection C - C (L=7.794 m)			
(6	$.8 + 6.0 + 4 \times 5.076$) x 7.79	4 (1.11)	= 258.013	m²
(D) Se	ection $D_1 - D_1$ (L=2.0 m)			
(6	$.4 + 5.6 + 4 \times 4.8) \times 2.0$, = 62.40	m²
(E) Se	ection D – D (L=7.0 m)	e e e e e e e e e e e e e e e e e e e	andronia. Santania	
(4	$.0 + 3.2 + 4) \times 7.0$		= 78.40	m²
{($\frac{1}{2}$ x 2 x π x $\frac{1.225}{2}$) + $(\frac{1}{2}$ x π	(1.0)	$(x \frac{1.0}{2}) $ x 4.9 =	6.849 m
To	otal E		= 85.249	m²
Total A	A + B + C + D + E		=1,048.393	m²
2. SUPP	ORT AREA			
(A) Se	ection B – B & F - F			
(2	x 4.0 x 3.0 x 4.5) + (2 x 4 x	(5.4 x 5.6)	= 349.92	m³
(B) Se	ection $D_1 - D_1 \& D - D$	ing a state of the		
(2	$\times 4.0 \times 4.3 \times 2.693) + (2 \times$	4 x 1.9 x 7.0)	= 199.04	m³

199.04 m³

12/12

Total A + B

548.96 m³

Name of Structure	FUEL TANK FOR BARU PUMPING STATION	Category Calculation	VOLUME CALCULATION	Page	1/7
					•

SUMMARY OF WORK VOLUME

l.	SOIL EXCAVATION	==	621.35 m ³
2.	BACK FILL	`\	511.66 m ³
3.	LEVELING CONCRETE, TYPE E	* == **	3.24 m ³
4.	CONCRETE FOR STRUCTURE, TYPE C1	=	49.21 m ³
5.	REINFORCING BAR	=	6,810.034 Kg
6.	FORM WORK FOR CONCRETE, TYPE C1	=	166.69 m²
7.	FORM WORK FOR CONCRETE, TYPE E	=	3 m ²

Name of Structure	FUEL TANK FOR BARU PUMPING STATION	Category Calculation	VOLUME CALCULATI	l Pan
(A) SO	IL EXCAVATION			
le.		en water and a service	ጸ ናበ	
	14.30	\	 	· · · · · · · · · · · · · · · · · · ·
			\	Z
		4.25 A		1 14 30
		<u>_</u> *	/	
	<u>k</u>	<u> </u>		
	5.80 16.84.65	170 May 171	1700 -	<u> </u>
Volume		×17.00) x 4.25	= 62	21.35 m³ ^{- 5}
(D) DI	AIN CONCRETE			
(B) PL/	AIN CONCRETE 4.5 x 7.20 x 0.10		,	040 3
(C) DA			= -	3.240 m³
(C) BA	CK FILL	(0) 01 01	15 0 01	
	621.35 - (4.30 x 7.00 x 3	•		
(D) CO	x 0.1 x 7.0 x 2 - 1.2 x 1.2	2 x 0.65 – 0.5 x 0.5	$0 \times 0.65 = 51$	11.66 m³
	NCRETE K 225	0.702		
1.	0.35 x (7.00 x 4.30 – ¼ π	: x 0.70°		
	$-1/4 \pi \times 0.2^2 - 0.8 \times 0.8$		• 1).167 m³
2.	0.45 x 7.00 x 4.30		the second second	13.55 m³
	4) 2 x 0.35 x 2.70 x 6.3		100	1.907 m³
	6) 2 x 0.35 x 2.70 x 4.30		= {	3.127 m³
7.	1 x 4 x 1.05 x 0.20		=	0.84 m ³
8.	0.35 x 4 x 1.05 x 0.15		= (0.221 m ³
9.	$(0.9 + 0.9) \times 1.05 \times 0.20$		=	0.38 m ³
10.				0.864 m³
11.	a. 0.2 x 3.20 x 0.20).128 m³
	b. ((3.2 + 2.40)/ 2 x 1.00		0^2) x 0.2 = (0.246 m³
	Number of Concrete Tan		= 5	
	Volume of Concrete = 5	x (0.128 + 0.246)		1.87 m³
12.	. Cover of Tank Drain			
	0.35 x 0.35 x 0.15		= 0.	0184 m³
13.	. Cover of Man Hole			
	$0.90 \times 0.90 \times 0.15$		= (0.122 m³
14.	Concrete Corner			
	0.5 x 0.24 x 0.2 x 6.3 x 4			
	+ 0.5 x 0.24 x 0.24 x 3.6	x 4	=	1.14 m³
			10 miles (10 miles 10 miles 1	and the second of the second of the

2/7

(9

Name of Structure	FUEL TANK FOR BARU PUMPING STATION	Category Calculation	VOLUME CALCULATION	Page	3/7
To	tal Volume Concrete K 22	5		7. 1.1.14	
	10.167 + 13.55 + 11.907	7 + 8.127 + 0.84 + ().221		
	+ 0.38 + 0.864 + 1.87 +			m³	
(C) DC	NFORCING BAR	0.0101 0.122	= 6,810.03		•
		LOBY.	· ·	Set	
•	EL TANK AND ACCESS		the second secon		
	OUNDING BC 50 mm			Set	
(H) FU	EL PIPE SET			Set	
		1 1000 1 200		in the second	
					A.
	4. A 1. A		计对数文字 计语识符器	jan ja l	
				in a day of	
			ning and Nagrapina Kabupat	100	
		to the second			
	en e				
			(x_0,x_0)		
				•	
				-	
					*

Name of Structure	FUEL TANK FOR BARU PUMPING STATION	Category Calculation	FORM WORK VOLUME	Page	4/7
FO	DRM WORK		to Drugo Section		<u> </u>
(A)) Wall Slab			•	•
	2 x 3.5 x 4.30 + 2 x 3.5 x				
	2 x 2.4 x 3.30 + 2 x 2.4 x	c 6.0	= 44.64	4 m² (11 5)	ing entre
(B)) Top Slab				
	3.30 x 6.0 - 2 x 0.8 x 0.8		= 18.48		
(C)) Fuel Pipe Hole		, i	表 化镍铁 (1)	
	4 x 1.20 x 0.75 + 4 x 0.8	$x 0.85 + 4 \times 1.0 \times$	0.10 = 6.72	l m²	
(D)) Man Hole			* * * * * * * * * * * * * * * * * * *	
	4 x 1.20 x 0.85 + 4 x 0.8	$x 0.75 + 4 \times 1.0 \times$	0.10 = 6.88	3 m²	
(E)) Main Hole				
	4 x 0.50 x 0.85 + 4 x 0.20	0 x 1.10 + 4 x 0.35	$\times 0.10 = 2.72$	² m² :	
(F)	Slope Concrete in the Con	rner			
	$(\sqrt{0.15^2+0.15^2})$ x (4 x 6	6.15 + 4 x 3.45)	= 8.15	s m²	
To	tal Form Work		= 166.69	,	

Name of Structure SCAFOLDING AND FORM SUPPORT, FOR Structure BANDARHARJO Calculation DRAINAGE SYSTEM Category Calculation

SUMMARY OF SCAFOLDING AND FORM SUPPORT VOLUME, FOR BANDARHARJO DRAINAGE SYSTEM

No.	VOLUME STRUCTURE	SCAFFOLDING (m²)	FORM SUPPORT (m³)
1	BARU PUMPING STATION	1049	549
2	BARU PUMPING STA. GATE	350	120
3	BARU CONVEYANCE CHANNEL	6574	2768
4	BARU CONVEYANCE CHANNEL INLET STRUCTURE	150	35
5	BARU CONVEYANCE CHANNEL OUTLET STRUCTURE	106	20
6	BANDARHARJO EAST SECONDARY CHANNEL	1166	491
7	BANDARHARJO EAST SECON- DARY CHANNEL OUTLET STR.	90	31
8	BARU RETARDING POND INLET STRUCTURE NO. 1	-	77
9	BARU RETARDING POND INLET STRUCTURE NO. 2		42
10	FUEL TANK BOX FOR BARU PUMPING STATION	133	62
1 1 1 2 4 1	TOTAL	9618	4195

Name of Structure	FUEL TANK BOX SCAFFOLDING AND FORM SUPPORT	Category Calculation	WORK VOLUME	Page	617
1. SCAI	FFOLDING			L	
(A) C	Outer of Side Walls		taling the second of the second	* 1	
3	$.5 \times (2 \times 4.3 + 2 \times 7.0)$		= 79.10	m²	*
(B) I	nner of Side Walls				
2	$.7 \times (2 \times 6.3 + 2 \times 3.6)$		= 53.46	m²	
Total	A + B		= 132.56	m²	
2. SUPI	PORT AREA		en e		
6 · · · · · · · · · · · · · · · · · · ·	.3 x 3.6 x 2.7		= 61.24	m³	
Y., .					:
	·			1 -	
* * * * * * * * * * * * * * * * * * *	* 1				
	‡ - √. •		ing the state of t		
i.					:
		:			, f
					:
-			e De stj. 1945 bligter	·	
			ingerija i daga. Tagan	e de la compansión de l	

Package 3: D Baru Pumping Station Gate

	Name of Structure	BARU PUMPING STATION GATE	Category Calculation	WORK VOLUME	Page	1/11
1	i					

SUMMARY OF WORK QUANTITY

1. CONCRETE TYPE C1	= 1	193 m³
2. SECONDARY CONCRETE TYPE C ₂		9 m³
3. LEVELING CONCRETE TYPE E	; = ^{;;} ,	9 m ³
4. STEEL SHEET PILE TYPE II		273 m ¹
5. PHC pile dia 500 (L = 22.6 m)	. =	339 m ¹
6. GABION MATTRESS (3,000 x 1,500 x 500)		18 m ³
7. REINFORCING BAR	=	16,501 Kg
8. SAFETY HAND RAIL	=	113 Kg
9. FORM WORK CONCRETE TYPE C1	=	479 m ²
10. FORM WORK CONCRETE TYPE E	= :	4 m ²
11. EXCAVATION	=	336 m ³
12. BACK FILL	==	$138 \mathrm{m}^3$
13. THE STAIRS		
a. Main pipe Ø 200		
Length 6.8 m \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	279 Kg	
b. Checkered plate: t = 6 mm Area =	8 m ²	
c. Galvanized pipe		
\varnothing 1.5 " Weight =	47 Kg	
\emptyset 2" Weight =	56 Kg	
14. WATER STOP (W=200)		18.5 m′
15. DOWEL BAR (D_{19} ; $L = 1,000$)		156 kg.

Name of Structure STATION GATE Category Calculation WORK VOLUME	Page 2/11				
Sincture STATION GATE Calculation WORK VOLUME Page 2/1 1. CONCRETE TYPE C1 Wall: $1 \times 9 \times 3.25 \times 2 = 58.5 \text{ m}^3$ Floor: $6 \times 11 \times 1$ Toe: $\frac{0.7 + 1}{2} \times 0.8 \times (6 + 11 + 6) = 15.64 \text{ m}^3$ Total = 140.14 m³ Column: - Length = 3.25 m I = 0.515 \times 2 3.25 \times 2 = 6.695 m³ II = 0.485 \times 0.545 \times 3.25 \times 2 = 1.718 m³ Total = 8.413 m² - Length = 3.25 m 1 = 1 \times 2 \times 1 \times 2 - Length = 0.3 m (1 \times 2) + (2.60 \times 4) 2.60 Total = 7.72 m³					
Structure STATION GATE Calculation WORK VOLUME Page 2/11 1. CONCRETE TYPE C1 Wall: $1 \times 9 \times 3.25 \times 2 = 58.5 \text{ m}^3$ $= 66 \text{ m}^3$ Total Toe: $\frac{0.7+1}{2} \times 0.8 \times (6+11+6) = 15.64 \text{ m}^3$ $= 140.14 \text{ m}^3$ Column: -Length = 3.25 m I = 0.485 × 0.545 × 3.25 × 2 = 6.695 m³ Total Total -Length = 3.25 m I = 0.485 × 0.545 × 3.25 × 2 = 1.718 m³ Total -Length = 3.25 m I = 1 × 2 × 1 × 2 = 4 m³ -Length = 0.3 m $\frac{(1 \times 2) + (2.60 \times 4)}{2} \times 0.30 \times 2 = 3.72 \text{ m}^3$					
Toe : $\frac{0.7+1}{2} \times 0.8 \times (6+11+6) =$	15.64 m³				
	化工程建筑				
<u> </u>					
	**				
Column					
$-1 \operatorname{enoth} = 3.25 \mathrm{m}$					
0.545 14	for the More of the second				
- Length = 3.25 m					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 m³				
-Length = 0.3 m					
$(1 \times 2) + (2.60 \times 4) \times 0.30 \times 2$	2.723				
2.60	3.72 m ²				
"我们是我们的,我们就是一个人的,我们就是一个大概的,我们就是一个人的,我们就是一个人的。""我们的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们	7.72 m³				
	8.64 m³				
	The Bright Control of the State				
	-1.162 m ³				
Fotal =	= 11.798 m³				
그리는 사용에 가장 되면 있었다. 그 시작은 기회는 회사 전에 가는 사람은 바다 회장한					
X Z.3 X Z X 8.2	6.355 m³				
그는 그들이 형자 중요한 사람들이 나는 사람들이 되었다.					
$\frac{0.13 + 0.23}{2} \times 0.05 \times 5 \times 6$	0.270 m³				
Bridge = $7.2 \mathrm{m}^3$					
Bridge = 7.2 m^3 Total Concrete C1 = $140.14 + 8.413 + 7.72 + 11.52 + 11.798$					

Name of Structure	BARU PUMPING STATION GATE	Category Calculation	WORK VOLUME	Page	3/11
2. SECO	NDARY CONCRETE			organica d	
Floor	$= 0.5 \times 0.3 \times 4$.97		= 0.745	m³
	0.65 x 0.4 x	4.97		= 1.297	m³
Wall	$= \{(0.485 \times 0.6)\}$	55) - (0.3 x 0.3)} x	3.25 x 2	= 1.464	m³
Colur	nn Wall = $\{1.06 \times 0.485\}$	5 – (0.31 x 0.31)} x	3.25 x 2	= 2.717	m³
Colur	nn = {(0.485 x 4.4	i55 – (0.335 x 1.005	5)} x 3.25 x 2	= 2.398	m³
Total Sec	condary Concrete			= 8.621	m³
3 1 EVE	LING CONCRETE				
J. DD V D					
Horiz		0.4×2) x (6 + 0.4		= 6.36	m³
		$\times (5.8 \times 2 + 11.00)$	}	= 2.02	m³
Total	= 6.36 + 2.02			= 8.38	m³
4. STEE	L SHEET PILE TYPE II				1
Lengt	h = 5.0 m, Width = 0.4				13
Longe		+ (11.06)			extend of
Lengt	$h = \frac{(6-0.3)\times 2}{0.4}$	$+(11.00) \times 5 =$	272.5 m'		
		=	273 m′		
			273 111	energia Subject 1559	ng di
5. PHC P	ILE DIA 500, LENGTH	= 22.6 m			
Total	$Length = 15 \times 22.6$	=	339 m′	t dest	
6 GARIO	ON MATTRESS (3 x 1.5	x 0.5)		-	
Volun	$= (3 \times 6 \times 0.5) \times$	< 2 =	18 m ³		777
7. BRIDO	GE				
Concr	ete Type Cl				
	3 x 0.4 x 6		7.20 m ³		
8. REINF	ORCING BAR				
Gate			11,534 kg		
Roof	= 1,851 + 894 +	- 1,540 =	4,285 kg		
Bridge	= 305 + 93		398 kg	e o William I. Solonia (Solonia)	
Total	Reinforcing Bar				
	= 11,535 + 4,28	= 398	16,218 kg		
	11,555 1 4,20		10,210 kg		

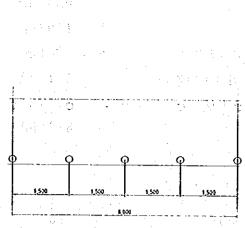
Name of Structure

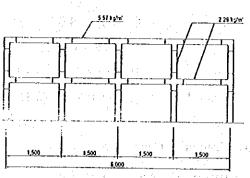
BARU PUMPING Category Calculation

WORK VOLUME

Page 4/11

9. HAND RAIL





Horizontal

I =
$$6 \times 2 \times 5.57$$
 = 66.84 kg
II = $6 \times 2 \times 2.29$ = 27.48 kg

Column

I =
$$(5 \times 0.8 \times 2) \times 2.29$$
 = 18.32 kg
Total = 112.64 kg

10. FORM WORK

- Roof A

I =
$$1.492 \times 5$$
 = 7.46 m^2
II = $(5 \times 2 + 1.492 \times 2) \times 0.18$ = 2.33 m^2
Sub Total = 9.79 m^2

Total =
$$2 \times 9.79$$
 = 19.58 m^2

- Roof B

$$I = 1.285 \times 5 = 6.425 \text{ m}^2$$

$$II = (5 \times 2 + 1.285 \times 2) \times 0.18 = 2.26 \text{ m}^2$$

$$Sub Total = 8.685 \text{ m}^2$$

$$Total = 4 \times 8.685 = 34.74 \text{ m}^2$$

- Wall

Front W =
$$\{7.2 \times 3 - 3.2 \times (2.260 - 0.9) - (1.22 \times 0.9)\} \times 2 = 32.30 \text{ m}^2$$

Back W = $\{7.2 \times 3 - (1.36 \times 2.9)\} \times 2 = 35.32 \text{ m}^2$
- Side Wall = $\{(4 \times 3 - (0.25 \times 1.625)) \times 2\} \times 2 = 46.36 \text{ m}^2$
- Floor = $4 \times 7.2 = 28.8 \text{ m}^2$
- Column = $\{(2 \times 1 + 1 \times 1) \times 2\} \times 2 = 12 \text{ m}^2$
 $\{2 + 1 + 2 + 1\} \times 2 \times 3.25 = 39 \text{ m}^2$

Name of BARU PUMPING Category WORK VOLUME Page Structure STATION GATE Calculation - Wall $= (9+1+9+1+0.485 \times 4) \times 3.250 \times 2$ $= 159.15 \text{ m}^2$ - Toe $= (6+11+6) \times 1.8$ 41.4 m² 11×1 $11 \, \mathrm{m}^2$ Total Form Work= 19.58 + 34.74 + 32.3 + 35.32 + 46.36 + 28.8 + 12 +39 + 159.15 + 41.4 + 11 459.65 m² O & M Bridge: $3 \times 4 + (0.4 \times 4) + 2 + (0.4 \times 3) + (0.4 \times$ = 12 + 3.2 + 2.4 $= 19.68 \text{ m}^2$ Total: $459.65 + 19.68 = 479.33 \text{ m}^2$ 11. THE STAIRS Column: main pipe: length = (5.80 - 0.85 + 0.85 + 1)Ø 200 = 6.80 m \emptyset 216.3/8 W = 41.1 kg/m² 279.5 kg Weight of Column $= 6.8 \times 41.1$ $\left\{ \frac{0.364 + 0.128}{2} \times 0.7 \right\}$ $0.1722 \, m^2$ Area I 0.314 No. Of Plate = 21 10.05 Total Area $I = 21 \times 0.1722$ 3.616 m² 0.7 0.10 $= \left\{ \frac{0.05 + 0.144}{2} \times 0.7 \right\}$ 0.0679 m² Area II 0.70 lo.05 П 0.144 Total Area II = 21 x 0.0679 - 1.426 m²

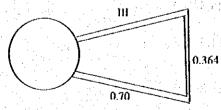


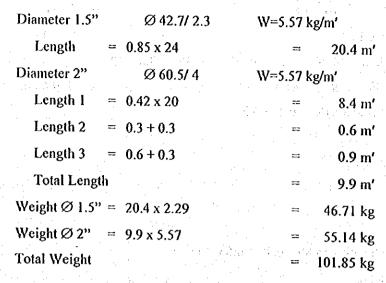
Plate III = $(0.7 + 0.364 + 0.7) \times 0.05 = 0.0882 \text{ m}^2$ Tot. Area III = 0.0882×21 = 1.852 m^2

5/11

Top Stairs = 0.3×0.9 = 0.27 m^2 Bottom Stairs = 0.8×0.7 = 0.56 m^2 Total Plate Area = 3.616 + 1.426 + 1.852 + 0.27 + 0.56 = 7.724 m^2

Name of Structure	BARU PUMPING STATION GATE	Category Calculation	WORK VOLUME	Page	6/11
		:		:	

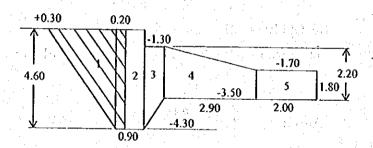
- GALVANIZED PIPE

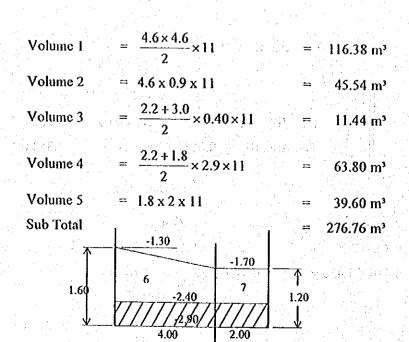


12. FORM WORK FOR CONCRETE TYPE E

$$0.1 \times (11.4 + 6.4) \times 2 = 3.56 \text{ m}^2$$

13. EXCAVATION





Name of Structure	BARU PUMPING STATION GATE	Category Calculation	WORK VOLUME	Page	7/11
Volu	$= \frac{1.2 + 1.6}{2} \times$	4×6 ==	33.6 m³		
Volu	ome 7 = $1.2 \times 2 \times 6$	2 · · · · · · · · · · · · · · · · · · ·	14.40 m³		
Volu	$= \frac{1.4 \times 1.4}{2} \times$	6×2 =	11.76 m³	e Internation	
Tota	l Excavation = 276.60	+ 50 7K	59.76 m ³ = 33	6.30 m³	2 84
	l Back fill = 116.38	•	the control of the control of		• 1
14. FAL	SE WORK	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	$\frac{1}{2} \left(\frac{1}{2} \right) \right) \right) \right) \right)}{1} \right) \right) \right)} \right) \right)} \right)} \right)} \right)} \right)} \right)} \right$		
Floor	r of the House		3.8		
I	$= 4 \times 4 \times (3.2)$	25 + 4.25 + 0.3)	= 1	24.8 m³	
	= (4 x 7.2 – 4 ub Total	1 x 4 – 2 x 1 x 2) x (4		8.28 m³ 3.08 m³	
Bridg		en de la companya de La companya de la co	= 16	3.U6 III	
I	$= 4 \times 3 \times 3.25$			39.1 m³	
Total	l False Work		= 20	2.18 m³	
15. SCA	FFOLDING				
Wall			43.2 m ²		
Floor	$3 \times 7.2 \times 4$: $0.4 \times 4 \times 2$		86.4 m ²	esiaesiy	
	$0.4 \times 7.2 \times 2$		5.76 m ²	and the state of	v † 1 ±
Colum			34 m²		
Wall	1 x 4.25 x 4 : 9 x 3.25 x 4	Committee of the second section of	17 m ²		
	1 x 3.25 x 4		117 m ²		
Found			25.2 m ²		
	Scaffolding		344.8 m²		
16. WAT	TER STOP				
		$\begin{array}{c} (3.25 + 0.5) \\ 3.25 \\ \downarrow \\ 0.50 \end{array}$	5) x 2 + 7 + 4 =	18.5 m	
2.00	7.00 * 2.00				

Name of Structure	BARU PUMPING STATION GATE	Category Calculation	WORK VOLUME	Page	8/11

17. DOWEL

 $(17.5 / 0.5 \times 1 \times 2.23 \times 20) = 156 \text{ kg}$

1 m

Distance of Dowel = 0.5 m

18. ANCHOR BAR (D₁₉; L=300)

a. For stop log grove

$$N = 6 \times 3 \times 2$$
 = 36 nos.
 10×4 = 40 nos.
76 nos.

b. For gate grove

$$N = 13 \times 5 \times 2$$
 = 130 nos.
 10×3 = 30 nos.
160 nos.

Total N = 236 nos.

Weight of anchor bar = $236 \times 0.3 \times 2.23 = 157.88 \text{ kg}$

ANCHOR PAD (D19)

For $L = 1.05 \text{ m} \rightarrow N = 13 \text{ x } 2 = 26 \text{ nos.}$

For $L = 0.80 \text{ m} \rightarrow N = 6 \times 6 = 36 \text{ nos}$.

Weight of anchor pad =
$$\{(1.05 \times 26) + (0.8 \times 36)\} \times 2.23$$

= 125.10 kg

TOTAL OF ANCHOR WEIGHT = 157.88 + 125.10 = 282.98 kg
TOTAL OF REINFORCING BAR = 16,218 + 283 = 16501 kg

	SCAFOLDING AND				
Name of Structure	FORM SUPPORT, FOR BANDARHARJO	Category Calculation	WORK VOLUME	Page	9/11
	DRAINAGE SYSTEM		man y to the		

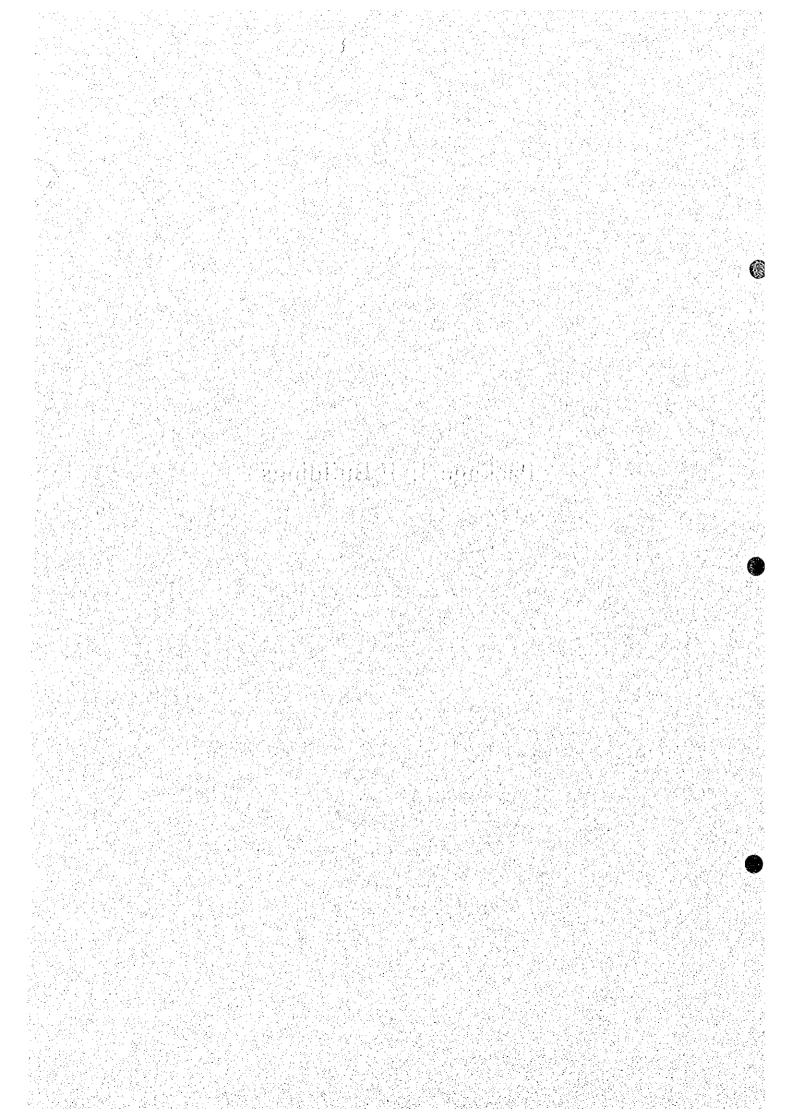
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5	BARU CONVEYANCE CHANNEL OUTLET STRUCTURE	106	20
6	BANDARHARJO EAST SECONDARY CHANNEL	1166	491
7	BANDARHARJO EAST SECON- DARY CHANNEL OUTLET STR.	90	31
8	BARU RETARDING POND INLET STRUCTURE NO. 1		77
9	BARU RETARDING POND INLET STRUCTURE NO. 2		42
10	FUEL TANK BOX FOR BARU PUMPING STATION	133	62
	TOTAL	9618	4195

Name of Structure	BARU PUMPING STATION GATE SCAFFOLDING AND FORM SUPPORT	Category Calculation	WORK VOLUME	Page	10 / 11
1. SCA	FFOLDING				
(A) 1	Pier				
. ($(8.5 + 9.3 + 2 \times 7.5) \times 9.0$		= 295.20	m²	
($(4 \times \frac{1}{4} \times \pi \times 0.5) \times 3.25$		= 5.105	m²	
	Sub Total A	Market Sept.	= 300.305	m²	
(B) (Operating Room				
	$(2 \times 4.0 + 2 \times 7.2) \times 3.4$		= 76.16	m²	•
1111	$(2 \times 3.7 + 2 \times 6.8) \times 3.0$	1.1	= 63.0	m²	* * * * * * * * * * * * * * * * * * * *
	Sub Total B A + B		= 139.16 = 349.465		
2. FOR	M SUPPORT AREA		and the second of the second o		
-	4.0 x 4.0 x 7.50		= 120	m³	•
14 					
			10 (11 (11 (11 (11 (11 (11 (11 (11 (11 (

(

Package 3: E Buildings



NO. ITEM OF WORK	UNIT	QUANTIT
EXCAVATION, FILLING & GRADING WORK		
1 Earth fill (new)	m3	22.45
2 Sand fill under foundation	m3	2.91
II FOUNDATION WORK		
1 Stone masonry 1:3:10		1 111
	m3	3.83
III REINFORCEMENT CONCRETE WORK		1 1,751
1 Concrete K-225	m3	34.73
2 Steel bar 3 Steel bar (D.16)	m3	146.63
3 Steel bar (D 16)	m3	3617.6
IV ROOFING WORK		
1 Wood Purlin		
2 Channel C Purlin	m3	0.70
3 Timber rafter	Kg m2	2916.80 411.80
4 Gutter timber batten	m2	13.06
Facing timber batten Roof ventilation frame	m2	27.92
7 Plywood roof cover	m3	0.35
Asphalt sheet roof cover	m2	411.80
9 Ceramic roof tile	m2	411.80
O Ceramic ridge tile	m2 m	411.80 27.92
1 Termite protection	Ls	1.00
Fiber cement roof tile Truss beagle & bolt	m2	4.06
3 Truss beagle & bolt	kg	18.00
V CONCRETE BLOCK WORK & BRICKWORK		
Brick wall 1:3:10	m3	24.25
/I PLASTER WORK	"">	24.35
/I PLASTER WORK Mortar plaster 1 : 3	1	
Mortar plaster 1:3:10	m2	8.89
Concrete plastering 1 : 2	m2	383.90
Hole ridge mortar plastering	m2 m	252.13 156.00
Terra-cotta	m2	0.00
DOORS & WINDOWS WORK		0.00
Light concrete for ventilation		
	Pc	52.00
III MISCELLANEOUS METAL WORK		
Steel door (sliding)	kg	109.52
Steel door (swing) Steel staircase	kg	82.80
Steel grill for pipe line	kg	755.24
Steel rail for crab	kg	89.71
Ventilation hole	kg kg	687.16 125.45
	^g	120.40
INTERIOR FINISHING Fiber cement 6 mm + wood frame		
Fiber cement 6 mm + wood frame Wood cornice	m2	0.00
	m	0.00
TILE WORK		$\{x_i\}_{i=1}^{n-1}$
Waterproofing mortar H=100 (for wall base)	m	42.75
Concrete plastering (for floor)	m2	200.82
SANITARY WORK		-00.02
SANITARY WORK Water supply installation (PVC pipe D=19 mm)		
Waste water installation (PVC pipe D = 110 mm)	, m	12.00
real [Closet 1996] And the character of the control of the contr	m	4.00
Hand sink	pc	0.00
Floor drain	pc pc	1.00 0.00
Septictank	unit	0.00
	W1111	
Water cock Bath tub (watertank)	рс	1.00

NO.		ITEM OF WORK	UNIT	QUANTITY
10 11 12 13 14	ELECTRICAL WORK Installation & lighting 40W-1 FL Installation & lighting 20W-1 FL Installation & lighting 15W-2 FL Installation & lighting 15W-1 FL Installation & lighting 10W-1 FL Installation & lighting 250W-1 H Lighting switch (single) Lighting switch (double) Outlet socket switch Outlet socket & Installation Lightning protector Fuse box Extinguisher 5 lt.		pc pc pc pc pc pc pc pc pc pc pc	7.00 12.00 0.00 0.00 0.00 2.00 2.00 2.00
16 XIII 1 2 3 4	Fuse New installation from PLN (2,200 <u>PAINTING WORK</u> Wall painting Wood painting Wood protection painting Steel protection painting Ceiling painting	VA)	pc pc m2 m2 m2 m2 m2 m2	3.00 1.00 573.90 201.49 0.00 40.90 388.82

e of ture	BARU PUMPING STATION COMPLEX		Category Calculation		1P CONTR BUILDING		Page
	Name of work	Height (M)	Lenth (M)	Each	Qty. (M2)	Subtota (M2)	al Total (M3)
BRICKB	LOCK	7.50	5.50	2.00	82.50	1 2 2 4	1 2 1 2
1:3:10		20.00	5.50	1.00	110.00	j. (44.5)	
		9.50	5.50	1.00	52.25		
•		10.50	3.10	1.00	32.55	277.3	0
		2.40	3.50	1.00	8.40	<u> </u>	
		1.75	0.80	2.00	2.80	i i	-
	of the second	1.20	1.20	2.00	2.88		
- L		1.35	0.30	66.00	26.73		T waste
1 /		0.50	20.00	2.00	20.00	<u> </u>	
		7.50 3.10	0.30 0.30	7.00 3.00	15.75	<u> </u>	
100		7.50	0.30	2.00	6.00	85.3	5
			1 1	4 1		191.9	
		Height	Lenth	Each	Qty.	Subtota	l Total
	Name of work	(M)	(M)	+ 42 +	(M2)	(M2)	(M2)
	R PLASTERING	7.50	5.50	4.00	165.00	<u> </u>	
1:3:10		20.00	5.50	2.00	220.00		
		9.50	5.50	2.00	104.50	554.0	
		10.50	3.10	2.00	65.10	554.6	'
77.17		2.40	3.50	2.00	16.80		-
		1.75	0.80	4.00	5.60		
100		1.20	1.20	4.00	5.76		
		1.35 0.50	0.30 20.00	132.00	53.46 40.00	* ** *	
		7.50	0.30	14.00	31.50	and the same	1
		3.10	0.30	6.00	5.58	1,	
144		7.50	0.40	4.00	12.00	170.70	
<u> </u>	<u> Paragonal Services (Company)</u> Paragonal Services (Company)			in the second	<u> </u>	383.90	383.90
	Name of work	Height (M)	Lenth (M)	Each	Qty. (M2)	Subtota	Total (M2)
CONCRE	TE PLASTERING	7.50	1.10	7.00	57.75		1
1:2		3.10	1.10	3.00	10.23		1
		7.50	1.10	2.00	16.50		
		20.00 0.50	1,10 20,00	2.00	44.00 20.00	1 7 1 7	
		0.50	7.50	2.00	7.50	1 2 3 5 7 2 7 3 1 2 2 5 5 7 3 7 3	
		1.05	17,50	3.00	55.13		
1 1 1 1 1 1		1.05	12.50	1.00	13.13	ere e	
		1.05 0.90	7.50 4.50	3.00	15.75 12.15	The second	252.13
					. 117 - 13		
1.8	Mana a formale	Wide	Lenth	Each	Weight	Subtota	
	Name of work RAILING	(M)	(M)		(Kg)	(Kg)	(Kg)
	200x75x25x3.2		2.92	2.00	5.84	55.60	5
PIPE D=			2.80	2.00	5.60	15.96	
PIPE D=		27 s 1	0.76	4.00	3.04	5.78	
	E 50x50x6	0.20	0.16	20.00	3.20	14.18	
	t = 5 mm t = 5 mm	0.70 0.10	0.44	10.00	3.08 0.02	120.74 0.86	
	l= 5 mm	0.18	0.00	4.00	0.15	6.0	
	50.8		4.20	2.00	8.40	23.94	
PIPE D≈			0.76	6.00	4.56	8.68	5 251.75
• .	38.1				7.50		
PIPE D=	38.1	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0.70	0.00	251.75	1 - 4	755.24

of ire	BARU PUMPING STATION COMPLE	x (Category Calculation		IP CONTR BUILDING		nge
7.1	Name of work		Vol. (M3)	Each	Qty. (M3)	Subtotal	Total (M3)
	CRETE FRAME RADIATOR HOLE		0.06	2.00 1.00	0.12 0.09 0.41	0.18	0.41 0.83
	Name of work		Lenth (M)	Each	Qty. (M)	Weight (Kg/M)	Total (Kg)
	L FRAME RADIATOR HOLE	C-TYPE PLAIN-S	120X60X2 D=12	4.00 1.00	2.00 12.00	6.51 0.89	52.08 10.64
<u> </u>					62.72	X 2	62.72 125.45
ξ(ξ).	Name of work	Height (M)	Lenth (M)	Each	Qty. (M)	Weight (Kg/M)	Total (Kg)
	L RAIL CRAB		20.00	2.00	40.00	22.29	891.60
s je Je		N. H.					Gillians
	Name of work	Height (M)	Lenth (M)	Each	Qty. (M)	Weight (Kg/M)	Total (Kg)
	L GRILL PIPE LINE	0.03 0.03 0.03	0.15 0.15 0.15	21.00 21.00 21.00	6.60 15.88 6.00	0.98 0.98 0.98	20.79 50.02 18.90
							89.71
ST- D	Name of work OOR (SLIDING)	Length	Each	Qty.	Weight (Kg/M)	Subtotal (Kg)	Total (M3)
O-TY		2.70	1.00	1.00	1.51 1.51	4.06 14.45	
U-TYI	60x30x1.6	2.40 2.70	1.00	1.00	1.13 1.13	2.71 3.05	t livet. Avvis
S-PL/	l=3.2 mm	2.45 1.32 0.64	1.00 2.20 2.20	1,00 2.00 2.00	1.13 2.51 2.51	2.77 14.57 7.06	
	l=3.2 mm l=6.0 mm l≈6.0 mm	0.80 0.20 0.07	0.18 0.26 0.08	2.00 3.00 4.00	2.51 4.70 4.70	0.72 0.73 0.11	<u> </u>
		0.20	0.10	2.00	4.70 5.91	0.19 59.10	109.52
L-TYF	t=6.0 mm PE 65X65X6	5.00	1.00				are produced to
L-TYF		5.00		า รูเร็ก กล้า เฉราะก็		10.11	
	PE 65X65X6 Name of work		Lenth (M)	Each	Qty.	Subtotal (M2)	Total (M2)
WALL	PE 65X65X6	5.00 Height	Lenth	า รูเร็ก กล้า เฉราะก็	Qty.		

of lure	BARU PUMPING STATION COMPLE		Category Calculation		IP CONTI		Page	
	Name of work	Height (M)	Lenth (M)	Each	Qty.	Subto	1	
WALL	. PAINTING	7.50	5.50	4.00	r di	165.0	00 !	
		20.00	5.50	2.00		220.	00	1
		9.50	5.50	2.00		104.		
		10.50 7.50	3.10 1.10	2.00 7.00		65.		_
		3.10	1.10	3.00		57.		
		7.50	1.10			16.5		
		20.00	1.10	2.00		44.0		
		0.50	20.00	2.00		20.0		
		0.50	7.50	2.00		7.5	710.5	58
		157		s ere ar i	<u> </u>	<u> </u>	. !	لت
		Height	Lenth	Each	Qty.	Subtot	al! Total	
Į	Name of work	(M)	(M)			(M2)	(M2)	
WALL	PAINTING	2.40	3.50	2.00		j 16.8	30 i	
		1.75	0.80	4.00	7.4	5.6		
1.0		1.20	1.20	4.00		5.7		
		1.35 0.50	0.30 20.00	48.00		19.4		
		7.50	0.30	4.00 14.00		40.0		-
14.7		3.10	0.30	6.00		5.5		
		7.50	0.40	4.00		12.0	Ю	<u> </u>
						136.6		
L		<u> </u>				573.9	0 573.9	<u> 10 </u>
	N	Height	Lenth	Each	Qty.	Subtot	al Total	
20 20	Name of work	1 (M) 1	- (M) 1	4 4		l (M2)	(M2)	
locu ii	Name of work	(M)	(M)			(M2)	(M2)	
	NG PAINT	7.00	18.00	2.00	252.00			
CEILIN PLYW	NG PAINT			2.00		325.5	0	
	NG PAINT	7.00	18.00 5.25	2.00 3.00	252.00 73.50 55.13		0	
	NG PAINT	7.00 7.00 1.05	18.00 5.25 17.50 12.50	3.00 1.00	252.00 73.50 55.13 13.13	325.5	0	
	NG PAINT	7.00 7.00 1.05 1.05 1.05	18.00 5.25 17.50 12.50 7.50	3.00 1.00 2.00	252.00 73.50 55.13 13.13 15.75	325.5	0	
	NG PAINT	7.00 7.00 1.05	18.00 5.25 17.50 12.50	3.00 1.00	252.00 73.50 55.13 13.13	325.5	0	
	NG PAINT	7.00 7.00 1.05 1.05 1.05 0.90	18.00 5.25 17.50 12.50 7.50 4.50 0.07	3.00 1.00 2.00 3.00 46.00	252.00 73.50 55.13 13.13 15.75	325.5	0	
	NG PAINT	7.00 7.00 1.05 1.05 1.05 0.90	18.00 5.25 17.50 12.50 7.50 4.50	3.00 1.00 2.00 3.00	252.00 73.50 55.13 13.13 15.75 12.15	96.1 32.8	5	
	NG PAINT	7.00 7.00 1.05 1.05 1.05 0.90	18.00 5.25 17.50 12.50 7.50 4.50 0.07	3.00 1.00 2.00 3.00 46.00	252.00 73.50 55.13 13.13 15.75 12.15	325.5 96.1	5	
	NG PAINT	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00	18.00 5.25 17.50 12.50 7.50 4.50 0.07 0.07	3.00 1.00 2.00 3.00 46.00 21.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8	5 3 388.8	2
	NG PAINT	7.00 7.00 1.05 1.05 1.05 0.90	18.00 5.25 17.50 12.50 7.50 4.50 0.07	3.00 1.00 2.00 3.00 46.00	252.00 73.50 55.13 13.13 15.75 12.15	96.1 32.8	5 3 388.8	2
PLYW	NG PAINT POOD Name of work	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.00	18.00 5.25 17.50 12.50 7.50 4.50 0.07 0.07	2.00 3.00 1.00 2.00 3.00 46.00 21.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 Subtot (M2)	5 3 388.8 al Total (M2)	2
PLYW	NG PAINT OOD Name of work RETE PLASTERING	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00	18.00 5.25 17.50 12.50 7.50 4.50 0.07 0.07	3.00 1.00 2.00 3.00 46.00 21.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 Subtot	5 3 388.8 al Total (M2)	2
CONC	NG PAINT OOD Name of work RETE PLASTERING	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.00 7.50 0.50	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 Each	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2	5 3 388.8 al Total (M2)	2
CONC	NG PAINT OOD Name of work RETE PLASTERING	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.00 7.50 0.50 0.50	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 Each	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2 0.8 10.5	5 3 388.8 al Total (M2) 0 5 8 0 0	2
CONC	NG PAINT OOD Name of work RETE PLASTERING	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.00 7.50 0.50 0.50 10.50 7.50	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 1.00 1.00 1.00 1.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2 0.8 10.5 7.5	5 3 388.8 al Total (M2) 0 5 8 0 0 0	2
CONC	NG PAINT OOD Name of work RETE PLASTERING	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.50 0.50 0.50 10.50 7.50 1.50	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 1.00 1.00 1.00 1.00 1.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 388.8 150.0 5.2 0.8 10.5 7.5	5 3 388.8 2 388.8 (M2) 0 5 8 0 0 0 0 0	2
CONC	NG PAINT OOD Name of work RETE PLASTERING	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.00 7.50 0.50 0.50 10.50 7.50	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 1.00 1.00 1.00 1.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2 0.8 10.5 7.5	3 388.8 3 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2
CONC	NG PAINT OOD Name of work RETE PLASTERING	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.50 0.50 0.50 0.50 10.50 7.50 1.62 6.00	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2 0.8 10.5 7.5 1.2 1.3 24.0	5 3 388.8 3 Total (M2) 5 8 0 0 0 0 0 0 0 0 0	2
CONC	Name of work RETE PLASTERING or)	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.00 7.50 0.50 0.50 0.50 10.50 7.50 1.62 6.00	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 1.00 1.00 1.00 1.00 1.00 1.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29 Qty.	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2 0.8 10.5 7.5 1.2 1.3 24.0	5 3 388.8 al Total (M2) 0 5 8 0 0 0 0 0 0 0 200.6 al Total	2
CONC	NG PAINT OOD Name of work RETE PLASTERING	7.00 7.00 1.05 1.05 1.05 0.90 7.00 7.00 7.50 0.50 0.50 0.50 10.50 7.50 1.62 6.00	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2 0.8 10.5 7.5 1.2 1.3 24.0	5 3 388.8 3 Total (M2) 5 8 0 0 0 0 0 0 0 0 0	2
CONC (for floor	Name of work RETE PLASTERING or) Name of work CONCRETE	7.00 7.00 7.00 1.05 1.05 1.05 7.00 7.00 7.00 7.00 7.50 1.50 7.50 1.50 1.62 6.00 Height (M) 0.05	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 1.00 1.00 1.00 1.00 1.00 1.00	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29 Qty.	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2 0.8 10.5 7.5 1.2 1.3 24.0	5 3 388.8 al Total (M2) 0 5 8 0 0 0 0 0 0 0 200.6 al Total	2
CONC (for floor	Name of work RETE PLASTERING or) Name of work	7.00 7.00 7.00 1.05 1.05 1.05 7.00 7.00 7.00 7.00 7.50 1.50 7.50 1.50 1.62 6.00 Height (M)	18.00 5.25 17.50 12.50 7.50 4.50	2.00 3.00 1.00 2.00 3.00 46.00 21.00 1.00 1.00 1.00 1.00 1.00 Vide	252.00 73.50 55.13 13.13 15.75 12.15 22.54 10.29 Qty.	325.5 96.1 32.8 388.8 Subtot (M2) 150.0 5.2 0.8 10.5 7.5 1.2 1.3 24.0	5 3 388.8 al Total (M2) 0 5 8 0 0 0 0 0 0 0 200.6 al Total	2

Name Struct		BARU PUMPING STATION COMPLEX		Category alculation		P CONTR UILDING		ge
		Name of work	Height (M)	Lenth (M)	Wide	Qty. (M)	Subtotal 	Total (M3)
		RETE FOR RAMP BEND	0.10	6.20	3.60 3.60	1.00	2.23	2.23
			0.10 0.10 0.10	3.60 6.00 0.90	0.45 0.45 0.30	1.00 1.00 9.00		
		H FILL	1.80	6.20	3.60	0.50	0.24	2.91
1	STON	E MASONRY	0.45 1.20	3.60 6.20	0.30 0.45	1.00 1.00	0,49 3,35	3.83
			l Weight i	Lenth	Wide !	01.		
		Name of work	(Kg/M)	(M)	wide	Qty.	Subtotal	Total (Kg)
	STEE	L BAR 10 mm	0.62	6.30 3.70		19.00 32.00	73.72 72.91	146.63
And the second second		Name of work	Weight (Kg/M)	Lenth (M)	Wide	Qty.	Subtotal	Total (Kg)
		ANISH PIPE L PLATE	3.13 3.13 0.006	0.90 3.20 0.10	0.10	3.00 1.00 3.00	8.45 10.01	18.46 1.41
		No. y	0.000 (0.10	0.10 [3.00	<u> </u>	1,41
	1 - 1		l Height I	Lenth i	Wide 1	Otv	Subtotali	Total
		Name of work	Height (M)	Lenth (M)	Wide	Qty. (M)	Subtotal	Total (M3)
	BRICK	Name of work			0.30 0.15		Subtotal 0.34	
	BRICK		(M) 0.40	(M) 0.90	0.30	(M) 9.00		(M3) 0.97
		BLOCK 1:3:10	(M) 0.40 0.85 Height	(M) 0.90 2.70 Lenth	0.30 0.15	9.00 1.00 Qty.	0.34	(M3) 0.97 0.34

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NO.		ITEM OF WORK	UNIT	QUANTITY
	EXCAVATION, FILLING	& GRADING WORK		
1	Earth cut		m³	96.83
2	Earth fill (old)		m³	34.10
3 4	Earth fill (new)		W ₃	17.25
4	Sand fill		m³ :	14.36
5	Sand fill under foundation	מכ	m³	8.71
			\$1	
l II	FOUNDATION WORK			
1	Dry stone masonry		m³	14.74
2	Stone masonry 1:3:1		m³	7.04
3 🚦	Brick block 1:3:10		m ₃	5.69
641	IDEINICODOCUCNIT OOM	ADETE MODY	1194 \$1 Kg 1 1 1 1 1 1	
111	REINFORCEMENT CON-	CRETE WORK		
1 2	Steel bar		m³	4.19
3	Steel bar (D 16)		kg	1605.64
4			kg	0.00
4	Light concrete		m³	10.05
IV	ROOFING WORK			
1	Wood truss		m³	2.60
2	Wood Purlin		m³	1.75
3	Timber rafter & timber t	natten	m²	296.21
	Gutter timber batten	Auton 1	m³	17.40
5	Facing timber batten		m,	2.22
6	Roof ventilation frame		m³	0.66
	Aluminum sheet		m²	14.00
	Plywood roof cover		m²	296.21
9	Asphalt sheet roof cove		m²	296.21
10	Ceramic roof tile		m²	296.21
11	Ceramic ridge tile		. m	44.00
12	Termite protection	仁 リキュルケーカイカモディー 不知事が	Ls	1.00
13	Fiber cement roof tile		m²	4.06
14	Truss beagle & bolt 📑		kg	30.00
				3 70
	CONCRETE BLOCK WO	RK & BRICKWORK		
	Brick wall 1:3		m³	3.72
2	Brick wall 1:3:10		m³	16.62
VI	PLASTER WORK			
	Mortar plaster 1:3	The state of the s	m²	62.07
	Mortar plaster 1 : 3 : 10		m²	289.41
3	Concrete plastering 1:		m²	203.41
	Terra cotta		m,	31.60
				31.00
VII	DOORS & WINDOWS WO	DRK .		
	Aluminum awakening		m	189.07
2	Double plywood door (To	eak frame)	m²	0.00
3	Aluminum door frame		m²	49.00
	Aluminum sliding-windov	v frame	m²	126.44
	Door keys for aluminum		рс	4.00
6	Door keys for wood doo		pc	4.00
	Door keys for toilet door		m² l	1.00
8	Espagnolete		pr	3.00
	Door hinges (125 mm)		pr	11.00
10	Window hinges (75 mm)		pr	6.00
11	Double teakwood door (w/ louver)	m²	6.36
12	Wood frame for ventilating		m³	0.41
	Door stopper	20 - 이 공고 관련 개발은 공격하고 있는 이 보고 🖡	рс	8.00
V				
	GLAZING WORK			
	Float glass 5 mm (natura		m²	29.78
	Float glass 8 mm (natura		m² .	2.20
	Mirror for lavatory 5 mm		m²	0.24
4	Etching glass 5 mm	[설명] : [10] [10] [10] [10] [10] [10] [10] [10]	m²	0.18

NO.		ITEM OF WORK	UNIT	OHANTITY
			OHII	QUANTITY
IX .	MISCELLANEOUS META	L WORK		
1	Roof ventilation hole	the winds, the la	kg	29.00
Х	INTERIOR FINISHING			
1	Fiber cement 6 mm + w	ood frame	m²	170.40
2	Wood cornice		m	186.00
Χı	TILE WORK		The Market of the Control of the Con	
1	Ceramic tile 300 x 300		m²	104.00
2	Ceramic tile 300 x 300 (textured, non-slip)	w,	34.26
3	Ceramic tile 200 x 200 (for wall covered)	m.	13.44
5	Ceramic tile 200 x 200 (Float glass H=100 mm,	textured, non-slip)	m²	3.13
		Again (ioi Hall base)	m 30 11 11 13 13 14	112.00
	SANITARY WORK			
1	Water supply installation	(PVC pipe D=19 mm) (PVC pipe D = 110 mm)	m	12.00
	Water cioset	i so hibs n = 110 titti)	m	8.00
4	Kitchen Washbak		pc pc	1.00 1.00
	Floor drain		pc //	1.00
	Septictank Water cock		unit	1.00
	Bath tub (watertank)		pc	2.00
	Kitchen table (reinforcen	ient concrete)	pc m³	1.00 0.14
- 1				V.1.4
XIII	ELECTRICAL WORK Installation & lighting 40\	W.1 FI		
2 ; ∣	Installation & lighting 40\	N-2 FL	pc pc	0.00 11.00
3	Installation & lighting 20\	W-1 FL	pc pc	9.00
4 : 5	Installation & lighting 15\ Installation & lighting 15\	N-2 FL N-1 GI	pc	0.00
6	Installation & lighting 10\	W-1 FL	pc	0.00
7 1 [1	Installation & lighting 25(W-1H The Company of t	pc	0.00
8 9	Lighting switch (single)		pc -	5.00
	Lighting switch (double) Outlet socket switch		рс	3.00
$11 \cdot 0$	Outlet socket & Installation	on the production of the second of the secon	pc pc	7.00 7.00
12 I	Fuse box		pc	1.00
	Waterpump Fuse		рс	1.00
	New installation from PLI	N (1,300 VA)	pc Unit	3.00 1.00
			OIII(1.00
	PAINTING WORK Wall painting		42.54	
2	Wood painting		m²	232.61
3	Polish		m²	11.96 12.72
4 \\ 5 \\ 5	Wood protection painting		Ls	1.00
	Steel protection painting Ceiling painting	,在1965年,1965年中国第二大学的基础的基础。	17 m²	1.78
1.50			m²	170.40
	FURNITURE			
	Office table		Unit	6.00
	Meeting table Meeting chair		Unit	1.00
	Filling cabinet		Unit 5	8.00
4 F	uning counter	and the control of t	Host 1	E AA
5	Sofa Portable stove		Unit Unit	6.00 1.00

Name of Structure	BARU PUMPING STATION COMPLEX		Category Calculation	M	ANAGEME OFFICE	ENT	Pa	age	1/5
	A1	Height	Lenth	Wide	Qty.	Subt		Total	1
	Name of work	(M)	(M)	(M)	<u> </u>	(M:	3) :	(M3)	}
* 1	EARTH FILL	0.12		6.00			2.96]
		0.12 0.12	0.90).89 		
	<u>.</u>	0.12					.08	<u>-</u>	
:		0.12			-i		.03	17.25	
		Height	Lenth	Wide	! Qty.	Subte	ntali	Total	1
	Name of work	(M)	(M)	(M)	40.	(M3		(M3)	
	SAND FILL	0.10	18.00	6.00	1		.80		,] :
	1	0.10	0.90	8.00			7.72		
4.0		0.10	0.90	12.00			.08		
		0.10 0.10	1.50 0.90	6.00 9.50			0.90	14.20	
				·		! \ 0).86	14.36	1
		Height	Lenth	Wide	Qty.	Subto	•	Total	
	Name of work	(M)	(M)	(M)		(M3	3)	(M3)]
	LIGHT CONCRETE	0.07	18.00	6.00			.56		
		0.07 0.07	0.90 0.90	8.00 12.00			0.50	<u> </u>	
		0.07	1.50	6.00		I	0.63		
		0.07	0.90	9.50			.60	10.05	
		Height	L.enth	Wide	! Qty.	Subto	ntall	Total	1
y Y	Name of work	(M)	(M)	(M)	(M2)	(M2		(M3)	
	BRICKBLOCK 1:3	0.60	18.00	2.00	21.60	1	·/ ·		<i>,</i> 1
	DINIONOLOGIC 1.3	0.60	6.00	4.00	14.40		-+		
		0.60	2.00	2.00	2.40				
		0.00	4.50	2.00	38.40	ļ			
		0.60	1.50 0.80	3.00 4.00	2.70 1.92		\dashv		
		0.60	0.90	1.00	0.54	1 .		Total Tale	
		0.15	0.60	24.50	2.21			1.11	
		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	na na Salaharan Salah salah salah	* * * * * * *	7.37	31	.04	3.72	
		Height	Lenth	Wide	Qty.	Subto		Total	
	Name of work	(M)	(M)	(M)	(M2)	(M2	<u>)</u>	(M3)	
	BRICKBLOCK 1:3:10	3.10 3.10	18.00 6.00	2.00 4.00	111.60 74.40			\$ 34 a	
		3.10	2.00	2.00	12.40	198			
		2.00	1.45	9.00	26.10			11 11	
		1.50	1.65	2.00	4.95			1	
		0.80 0.65	1.65 1.40	4.00 1.00	5.28			· · ·	
		1.01	0.50	4.00	2.02	-			
		1.90	1.50	1.00	2.85			:	
		0.90 3.10	1.65 0.15	1.00 24.50	11.39	<u> </u>			
		1.10	1.40	1.00	1.54				
		0.20	0.20	85.00	3.40	59	.93	1.	
						138	.47	16.62	
		Height	Lenth	Wide	Qty.	Subto	otall	Total	
	Name of work	_(M)	(M)	(M)		(M2		(M3)	
	TERRACOTA	0.80	1.20	4.00	I e i e e	3	.84		
		1.20	2.20	1.00		2	.64	A 1 3	
		1.20	4.20	1.00			.04		
		1.20 0.80	2.30 2.30	2.00 2.00			.52		
		0.80	2.40	2.00	1 5 4 1 5 4 5 1 1 1		.84		
		0.80	4.40	2.00	1		.04	31.60	

Name of Structure	BARU PUMPING STATION COMPLEX	Category Calculation	MANAGEMENT OFFICE	Page	2/5

<u></u>						
and the Association						
	Height	Lenth	Wide	Oto	Cublatali	T-1
Name of work	; Beight			Qty.	Subtotal	Tota
	, (IA3)	(M)	(M)		(M2)	(M2)
MORTAR PLASTERING	0.60	18.00	4.00		: 43.20	;
1:3	0.60	6.00	8.00		28.80	
	0.60	2.00	4.00		4.80	- ;
			<u> </u>		76.80	
	0.60	1.50	6.00		5.40	1, 1
2000	0.60	0.80	8.00		3.84	
	0.60	0.90	2.00		1.08	
	0.15	0.60	49.00	* .	4.41	- 14 1
			i		14.73	62.0
	Height	Lenth :	Wide	<u> </u>	i California	
Name of work	(M)		,	Qty.	Subtotal	Total
	i (IVI)	(M)	(M)	<u> </u>	<u> (M3) </u>	(M3)
MORTAR PLASTERING	3.10	18.00 [4.00 j		223.20	1 1
1:3:10	3.10	6.00	8.00	,	148.80	
	3.10	2.00	4.00		24.80	7.1
		prop.	V-1-12		396.80	11, 00.1
	2.00	1.45	18.00		52.20	
	1.50	2.25	4.00		13.50	
	0.80	2.25	8.00		14.40	
	0.65	1.40	2.00		1.82	
	1.01	0.50	8.00		4.04	·
	2.50 0.90	1.50 2.25	2.00	*	7.50	<u> </u>
	1.10	1.40	2.00	and the second	4.05	- 1
	0.20	0.20	170.00		3.08	
			- 170.00		6.80	000 4
	19 19	<u> </u>			107.39	289.4
	Height	Lenth	Wide i	Otv.	184888	808 63
Name of work	Height (M)	Lenth (M)	Wide (M)	Qty.	Subtotal	Total
	(M)	(M)	Wide (M)	. Park t	Subtotal (M3)	808 63
CONCRETE PLASTERING	(M) 2.50	(M) 0.15		49.00	Subtotal (M3)	Total
CONCRETE PLASTERING	(M) 2.50 0.15	(M)	(M)	. Park t	Subtotal (M3) 18.38 4.41	Total (M3)
	(M) 2.50	(M) 0.15		49.00	Subtotal (M3)	Total (M3)
CONCRETE PLASTERING	(M) 2.50 0.15	0.15 0.60	(M)	49.00	Subtotal (M3) 18.38 4.41 22.79	Total (M3) 22.7
CONCRETE PLASTERING 1:2	(M) 2.50 0.15 Height	(M) 0.15	(M)	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal	Total (M3) 22.7
CONCRETE PLASTERING 1:2 Name of work	(M) 2.50 0.15 Height (M)	(M) 0.15 0.60 Each	(M)	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M)	Total (M3) 22.7
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M)	(M) 0.15 0.60 Each	(M) Qty. 9.00	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30	Total (M3) 22.7
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01	(M) 0.15 0.60 Each 2.00 2.00	Qty. 9.00 9.00	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09	Total (M3) 22.7
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20	(M) 0.15 0.60 Each 2.00 2.00 2.00 2.00	Qty. 9.00 9.00 1.00	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40	Total (M3) 22.7
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90	(M) 0.15 0.60 Each 2.00 2.00 2.00 1.00	Qty. 9.00 9.00 1.00 1.00	49.00 49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50	(M) 0.15 0.60 Each 2.00 2.00 2.00 1.00 1.00	9.00 9.00 1.00 1.00 2.00	49.00 49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20	(M) 0.15 0.60 Each 2.00 2.00 1.00 1.00 2.00	9.00 9.00 1.00 1.00 2.00 2.00	49.00 49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50	(M) 0.15 0.60 Each 2.00 2.00 1.00 1.00 2.00 2.00 2.00	9.00 9.00 1.00 1.00 2.00 2.00 1.00	49.00 49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50	(M) 0.15 0.60 2.00 2.00 1.00 1.00 2.00 1.00 1.00 1.00	9.00 9.00 1.00 1.00 2.00 2.00 1.00	49.00 49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00	(M) 0.15 0.60 2.00 2.00 1.00 1.00 2.00 1.00 1.00 1.00 1.00	9.00 9.00 1.00 2.00 2.00 1.00 1.00	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15	(M) 0.15 0.60 2.00 2.00 2.00 1.00 2.00 1.00 1.00 1.	(M) 9.00 9.00 1.00 2.00 2.00 1.00 1.00 1.00 1.00 1	49.00 49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.35	(M) 0.15 0.60 2.00 2.00 2.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	(M) 9.00 9.00 1.00 2.00 2.00 1.00 1.00 1.00 1.00 1	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.35 1.15 2.20	(M) 0.15 0.60 2.00 2.00 2.00 1.00 2.00 1.00 1.00 1.	(M) 9.00 9.00 1.00 2.00 2.00 1.00 1.00 1.00 1.00 1	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.55 2.150 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20	(M) 0.15 0.60 2.00 2.00 2.00 1.00 1.00 1.00 1.00 1.	Qty. 9.00 9.00 1.00 1.00 2.00 1.00 1.00 1.00 1.00 1	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40 4.40	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.55 2.20 2.50 1.50 2.20 1.45	(M) 0.15 0.60 2.00 2.00 2.00 1.00 2.00 1.00 1.00 1.	(M) 9.00 9.00 1.00 1.00 2.00 1.00 1.00 1.00 1.00 1	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40 4.40 1.45	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 1.50 2.00 1.50 2.20 1.50 2.20 1.50 2.20 1.50 2.20 1.50 2.60 1.50 2.70 1.50 2.80 1.50 2.80 1.50 2.80 1.50 2.80 1.85 1.15 2.80 2.80 1.85 2.80 1.85 2.80 3.85	(M) 0.15 0.60 2.00 2.00 2.00 1.00 1.00 1.00 1.00 2.00 1.00 1	(M) 9.00 9.00 1.00 1.00 2.00 1.00 1.00 1.00 1.00 1	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40 4.40 1.45 0.65	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.35 1.15 2.20 2.20 1.45 0.65 2.20	(M) 0.15 0.60 2.00 2.00 2.00 1.00 2.00 1.00 1.00 1.	(M) 9.00 9.00 1.00 1.00 1.00 1.00 1.00 1.0	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40 4.40 1.45 0.65 13.20	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.35 1.15 2.20 2.20 1.45 0.65 2.20 1.76	(M) 0.15 0.60 2.00 2.00 2.00 1.00 2.00 1.00 1.00 1.	(M) 9.00 9.00 1.00 1.00 2.00 1.00 1.00 1.00 1.00 1	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40 4.40 1.45 0.65 13.20 5.28	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.35 1.15 2.20 2.20 1.45 0.65 2.20 1.76 0.96	(M) 0.15 0.60 2.00 2.00 2.00 1.00 1.00 1.00 1.00 1.	(M) 9.00 9.00 1.00 1.00 1.00 1.00 1.00 1.0	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40 4.40 1.45 0.65 13.20 5.28 2.88	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.35 1.15 2.20 2.20 1.45 0.65 2.20 1.76 0.96 0.50	(M) 0.15 0.60 2.00 2.00 2.00 1.00 1.00 1.00 1.00 2.00 1.00 1	(M) Qty. 9.00 9.00 1.00 1.00 1.00 1.00 1.00 1.	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40 4.40 1.45 0.65 13.20 5.28 2.88 1.50	Total (M3) 22.7 Total (M)
CONCRETE PLASTERING 1:2 Name of work ALUMINIUM	(M) 2.50 0.15 Height (M) 1.35 2.01 2.20 0.90 1.50 2.20 2.50 1.50 2.00 1.35 1.15 2.20 2.20 1.45 0.65 2.20 1.76 0.96	(M) 0.15 0.60 2.00 2.00 2.00 1.00 1.00 1.00 1.00 1.	(M) 9.00 9.00 1.00 1.00 1.00 1.00 1.00 1.0	49.00	Subtotal (M3) 18.38 4.41 22.79 Subtotal (M) 24.30 36.09 4.40 0.90 3.00 8.80 5.00 1.50 2.00 1.35 1.15 4.40 4.40 1.45 0.65 13.20 5.28 2.88	(M3) 22.7 Total (M)

Name of Structure	BARU PUMPING STATION COMPLE	x c	Category Calculation	M	ANAGEMI OFFICE		F	age	3/5
. :	Name of work	Height (M)	Each	Qty.	Qty.	Subt		Tota (M)	
i i	ALUMINIUM WINDOWS FRAME	0.65 1.35		9.00	7		.10		
		0.58					.30		_
		1,35	4.00	1.00			.40		
		1.35 0.60	2.00	1.00			.70		
		0.60	2.00 8.00				.20	· · · · · · · · · · · · · · · · · · ·	
		0.46	4.00	2.00			64		
						126	.44	126.4	4
	Name of work	Height (M)	Each	Qty.	Qty.	Subto		Total (M)	
	ALUMINIUM	2.20	4.00	2.00	17.60	!			<u> </u>
	DOOR FRAME	0.50	6.00	2.00	6.00	<u>† </u>	1		_
		2.50	4.00	1.00					
		0.50 2.20	3.00 2.00	2.00 2.00		ļ	i	-	
		0.60	3.00	2.00		1272			
					49.00			49.0	ō
	Name of work	Height (M)	Lenth (M)	Each	Qty.	Subto		Total (M2)	1
	GLASS 5 mm NATURAL	0.64	1.35	27.00	1	23	.15		-
		0.60	1.35	1.00		. 0	.81	:	
1.00		1.90	1.00	2.00			.80	In the	
		2.20 1.00	1.00 1.30	1.00			20 30		
		0.40	0.45	4.00			72		
		7.4	1, 10	5. 11.5%	1		98	31.9	8
	Name of work	Height (M)	Lenth (M)	Each	Qty.	Subto (M2		Total (M2)	
	WOOD DOOR	0.70	2.20	4.00			16	6.10	តា
ſ					1 06.				-
	Name of work	Height (M)	Lenth (M)	Wide (M)	Qty.	Subto (M3		Total (M3)	
	WOOD	0.03	0.20	0.80	85.00			0.4	<u> </u>
	VENTILATION HOLE				1		$\perp I$		
	Name of work	Height (M)	Lenth (M)	Each	Qty.	Subto (M2		Total (M2)	
[BLUR GLASS	0.40	0.45	1.00		0.	18	0.10	3
	Name of work	Height (M)	Lenth (M)	Wide (M)	Qty.	Subto (M3		Total (M3)	
ŗ	CEILING	2.00	2.00	3.00	12.00		<u>'</u>		-
		6.00	4.00	1.00	24.00	, ,			\dashv
		6.00	12.00	1.00	72.00				
		1.20	20.00	2.00	48.00		-1		
		1.20	6.00	2.00	14.40 170.40			170.40	-
						· · · · · · · · · · · · · · · · · · ·	1		
		Height	Each		Qty.	Subto		Total	
12 1 1	Name of work	(M) j		<u> </u>		(M)		(M)	
	CEILING CORNICE	18.00	4.00		1 2 2 2 2 2	72.			
		6.00	8.00	<u> </u>	15.7	48.			_
		2.00	5.00 2.00			10. 40.		- 1947 	
		8.00	2.00		 	40. 16.		<u>* * * * * * * * * * * * * * * * * * * </u>	-
	and the second of the second o					186.	1		

Name of Structure	BARU PUMPING STATION COMPL		Category Calculation		IANAGEM OFFICE		Page	4/5
	Name of work	Height (M)	Lenth (M)	Qty.	1	Subtot (M2)		
	ERAMIC TILE	12.00		1.00		72.0	0	1
30	0 X 30	4.00		1.00		24.0]
		2.00	2.00	2.00		8.0 104.0		
		<u> </u>						_
	Nama africada	Height	Lenth	Qty.	!	Subtot	•]
: L	Name of work	(M)	(M) :			(M2)	(M2)] .
	ERAMIC TILE	0.90	12.00 :	1.00		10.8		1
. 30	0 X 30 (NON-SLIP)	0.90 0.90	8.00 9.40	1.00		7.2		
		0.60	6.00	1.00		8.4 3.6		
		0.70	6.00	1.00		4.2	0	
L		1.4				34.2	6 34.26]
	Name of work	Height (M)	Lenth (M)	Qty.		Subtota (M2)	al Total (M2)	
C	ERAMIC TILE	0.60	0.80	1.00		0.4] 1
	X 20 (FOR WALL)	0.60	0.60	4.00		1.4		
		1.60	2.00	3.00		9.60	0	
		1.20	1.60	1.00		1.9		
						13.4	4 13.44	J
	Al-	Height	Lenth	Wide	Qty.	Subtota	al Total	
<u> </u>	Name of work	(M)	<u>(M) i</u>	(M)	(M)	(M)	(M)	
	ALL BASE	18.00	3.00	11.77	54.00	100 100 100		1
IRV	AYBAND GLASS 5 mm	6.00 2.00	7.00	41 1	42.00		1 - 1 - 1	
		2.00	4.00		8.00 8.00			
					112.00		112.00	
		Height	Lenth ;	Each		Subtota	l Total	
	Name of work	(M)	(M)	24011		(M2)	(M2)	
[W	ALL PAINTING	3.00	18.00	2.00	·	108.00	· · · · · · · · · · · · · · · · · · ·	4.5
		3.00	6.00	5.00	2.7	90.00		
		2.80	2.00	12.00	4 4 4	67.20)	
		2.80 2.80	18.00 6.00	2.00		100.80 33.60		
V.				- 2.00		399.60		
*.		18.00	3.00	0.10		5.40)	
		6.00	7.00	0.10		4.20		
	tang panggarang panggarang panggarang panggarang panggarang panggarang panggarang panggarang panggarang pangga	2001	4 00			. V 04)	
		2.00	4.00	0.10 0.10	4	0.80 0.80		
		2.00 0.60	4.00 0.80	0.10 0.10 1.00	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0.80 0.48	3	
		2.00 0.60 0.60	4.00 0.80 0.60	0.10 0.10 1.00 4.00		0.80 0.48 1.44)	
		2.00 0.60	4.00 0.80	0.10 0.10 1.00		0.80 0.48 1.44 9.60)	
		2.00 0.60 0.60 1.60 1.20 2.00	4.00 0.80 0.60 2.00 1.60 1.45	0.10 0.10 1.00 4.00 3.00 1.00 9.00		0.80 0.48 1.44 9.60 1.92 26.10)	
		2.00 0.60 0.60 1.60 1.20 2.00 1.50	4.00 0.80 0.60 2.00 1.60 1.45 2.25	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00		0.80 0.48 1.44 9.60 1.92 26.10 6.78	0	
		2.00 0.60 0.60 1.60 1.20 2.00	4.00 0.80 0.60 2.00 1.60 1.45 2.25 2.25	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00 4.00		0.80 0.48 1.44 9.60 1.92 26.10 6.75 7.20)	
		2.00 0.60 0.60 1.60 1.20 2.00 1.50 0.80 0.65 1.01	4.00 0.80 0.60 2.00 1.60 1.45 2.25 2.25 1.40 0.50	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00 4.00 1.00 4.00		0.80 0.48 1.44 9.60 1.92 26.10 6.78	0	
		2.00 0.60 0.60 1.60 1.20 2.00 1.50 0.80 0.65 1.01	4.00 0.80 0.60 2.00 1.60 1.45 2.25 2.25 1.40 0.50 1.50	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00 4.00 1.00 4.00 1.00		0.86 0.48 1.44 9.66 1.92 26.16 6.75 7.20 0.91 2.02)	
		2.00 0.60 0.60 1.60 1.20 2.00 1.50 0.80 0.65 1.01 2.50 0.90	4.00 0.80 0.60 2.00 1.60 1.45 2.25 2.25 1.40 0.50 1.50 2.25	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00 4.00 1.00 4.00 1.00 1.00		0.86 0.48 1.44 9.66 1.92 26.16 6.76 7.20 0.91 2.02 3.75 2.03)	
		2.00 0.60 0.60 1.60 1.20 2.00 1.50 0.80 0.65 1.01 2.50 0.90 1.10 0.20	4.00 0.80 0.60 2.00 1.60 1.45 2.25 2.25 1.40 0.50 1.50	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00 4.00 1.00 4.00 1.00		0.86 0.48 1.44 9.66 1.92 26.16 6.76 7.20 0.91 2.02 3.75 2.03)	
		2.00 0.60 1.60 1.20 2.00 1.50 0.80 0.65 1.01 2.50 0.90 1.10 0.20 0.60	4.00 0.80 0.60 2.00 1.60 1.45 2.25 2.25 1.40 0.50 1.50 2.25 1.40 0.20	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00 4.00 1.00 4.00 1.00 1.00 1.00 85.00 3.00		0.86 0.48 1.44 9.66 1.92 26.16 6.75 7.20 0.91 2.02 3.75 2.03 1.54)	
		2.00 0.60 0.60 1.60 1.20 2.00 1.50 0.80 0.65 1.01 2.50 0.90 1.10 0.20 0.60	4.00 0.80 0.60 2.00 1.60 1.45 2.25 2.25 1.40 0.50 1.50 2.25 1.40 0.20 1.50 0.80	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00 4.00 1.00 4.00 1.00 1.00 1.00 85.00 3.00 4.00		0.86 0.48 1.44 9.66 1.92 26.16 6.76 7.20 0.91 2.02 3.75 2.03 1.54 3.40 2.70)	
		2.00 0.60 1.60 1.20 2.00 1.50 0.80 0.65 1.01 2.50 0.90 1.10 0.20 0.60	4.00 0.80 0.60 2.00 1.60 1.45 2.25 2.25 1.40 0.50 1.50 2.25 1.40 0.20	0.10 0.10 1.00 4.00 3.00 1.00 9.00 2.00 4.00 1.00 4.00 1.00 1.00 1.00 85.00 3.00		0.86 0.48 1.44 9.66 1.92 26.16 6.75 7.20 0.91 2.02 3.75 2.03 1.54)	

Name of	BARU PUMPING	Category	MANAGEMENT		
Structure	STATION COMPLEX	Calculation	OFFICE	Page	5/5

Name of work	Height (M)	Lenth (M)	Each	Subtotal (M2)	Total (M2)
CEILING PAINT	2.00	2.00	3.00	12.00	
	6.00	4.00	1.00	24.00	
	6.00	12.00	1.00 ,	72.00	
	1.20	20.00	2.00 ;	48.00	
	1.20	6.00	2.00	14.40	4.17
A STATE OF STATE OF		i		170.40	170.40

Name of work	Height (M)	Lenth (M)	Each !	Subtotal (M2)	Total (M2)
CERAMIC TILE	1.40	2.00 }	1.00	2.80	eta yetiki e
20 X 20 (NON-SLIP)	0.60	0.55	1.00	0.33	
				3.13	3.13