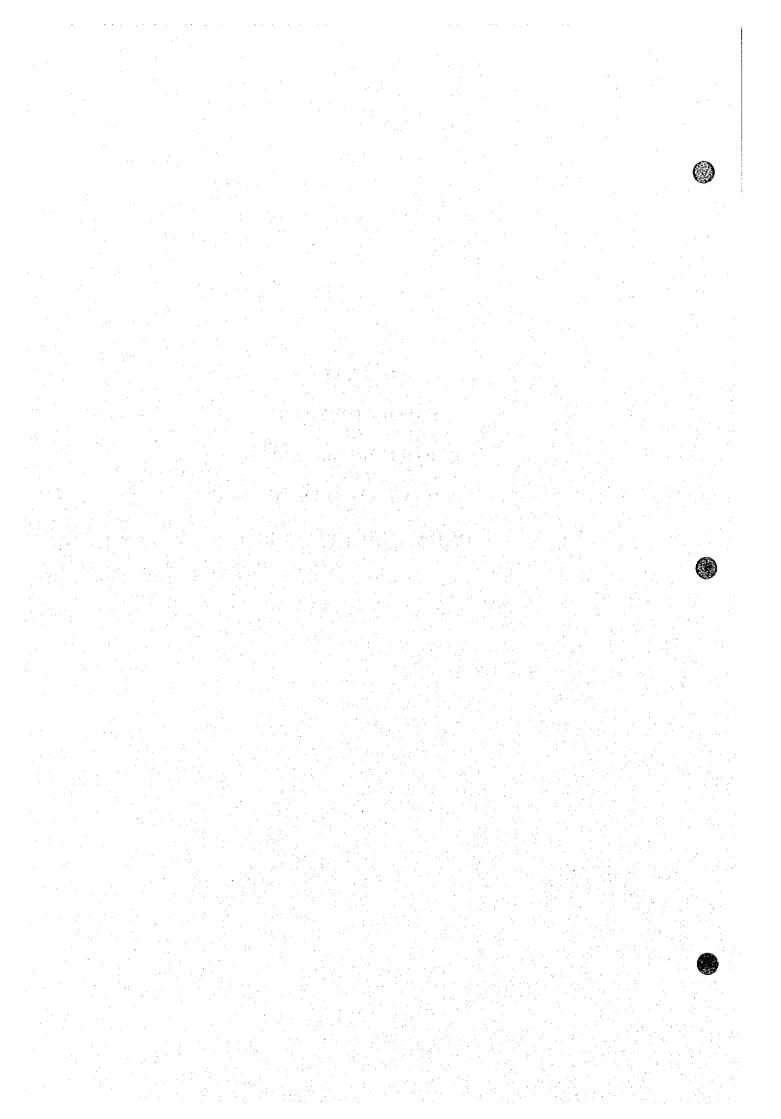
DATA 4.1.2

LABORATORY TEST
OF
EARTH CORE MATERIAL
FOR
DONG NAI No.4 DAM

PERMEABILITY TEST



COEFFICIENT OF PERMEABILITY TEST (Falling head method) THI NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đối)

CONG NAT 3 4 4 COMMENCE MYDOMONER CORD of SOMPHERINGS : Diameter : 6.18cm; Area A : 30cm, Height L : 4cm

Location of sample:

Volume V: 120cm²; Height of standpipe: 100cm

Description of soil: Residual soil of basalt: Sitt sandy are of standato a : 0.280m² Formule of calculcation : Depth:

Type of sample: Remoulded to standard compression result Date of testing:

Kr = 21 Ln 12 & K200c = K172 cm/sec

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	¥ ¥	CM/Sec	Ļ	1020 187.10 1,84.10 0,801 15x10]	
	<u>.</u>	2		100.00		
Average	Ŧ.	(cm/sec)	1	9/8/		
Time Chart Day Average	, Y	M* D-h-m H, (cm) D-h-m H, (cm) °C t (sec) (cm/sec) (cm/sec)	18,6	187.10	1.87,16	
į	elapsed	t (sec)	020	1020	4020	
	Temp.	ų		S		
	Final of W.L. Temp.	H, (cm)	24.0	2 75635 400 847 60,0 30 10	0'09	
	Final	바	28 8 (7)	178	- 94	
	¥ ¥.t	H. (cm)	\$	ا {	8	
	est & Dry No of Time Initial of W.L.	5	2.0 %	76026	-9 00 100 - 947 60,0	
	Time	12	-	<u> </u>	۱,	Į
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53.02	ρά	ob No Child W1. Standip.		Z-1 227 7	:	
	esi de	2 8		五		

30 %		1,28y6	
11.		0,9915	
Average - Kr	, and a	30846	
Time Coeff, Per, Average Ry - Ky	9, 76 A	308.10	3 5210
Time	2	2100	2760 3,5310
Temp.	د د	ዶ	
Test & Day No of Time Initial of W.L. Final of W.L. Temp. Flame Coeff. Per Average 135 Knoc.	D-n-m : H ₂ (cm)	28 80 100,00 60 10 2100 3.08 16 3.08 10 3.08 16 3.08 10 0.00 13.08 16	25-10-40-10-128-4-16 59
Initial of W.L	(cm) H m-4-0	26 to 100.0	27.40 40 104.0
Ti de		- ~	~
Test & Dry No of Job No Unit Wt. Standp.	•	~	
Set We	, etc.)	2	
Test &		101-2 12.05 2 3	

151 S. Dry No of Time Initial of W.L. Frau of W.L. Temp 6 appear Kr. Kr. Kr. Kr. Kr. Kr. Kr. Kr. Kr. Kr		`			
Final of W.L. Temp. O-h-m 15, (cm) 12 24,920 60,5 24,920 60,0 16,10 18,10 61,0	Å.	DB/WC	7	0,0	
Final of W.L. Temp. O-h-m 15, (cm) 12 24,920 60,5 24,920 60,0 16,10 18,10 61,0	<u>خ</u> <u>-</u>	3		Klos's	
Final of W.L. Temp. O-h-m 15, (cm) 12 24,920 60,5 24,920 60,0 16,10 18,10 61,0	Average Kr	(cm/sec)	3	DL.15.0	
Final of W.L. Temp. O-h-m 15, (cm) 12 24,920 60,5 24,920 60,0 16,10 18,10 61,0	Coeff. Per	(cm/sec)	3.11.6	35.50	3.84.50
Final of W.L. Temp O-h-m H ₂ (cm) TC 24.9.20 60.5 45.55 60.0 30 13.10 61.0	Time	(360)	4500	8 8 8 9	4300
15st S	Temp.	2	ļ	۶	
15st & Dry No of Time Initial of W.L. Job No. Unit W.L. Stando. No. Debrim Nr. (600) 1Dx1-3 12.48 3 2 - \$30 100 0	Final of W.L.	O-h-m 14, (cm)	209 0262	- 105 EQ.0	- 1310 61.0
16st 8. Dry No of Time Job No - Unit Wt. Stando. NO. No	Initial of W.L.	O-9-m : M; (cm)	26 500 100 8	- \$30 100 0	-4050 100.0
161 & Dry No of Job No : Unit WI. Stands. KH/m³ 1D/-3 12.48 3	Į.	2	-	2	3
Test & Dry Job No : Unit Wit. 101-3 12.48	No of	Station.		m	•
1851 & Job No 164 No 16	200	KN/m.		12.98	
	Jest &	2 8		5 2 3	

100			
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- E	-	608.0	
Kr Kr (cm/sec)		\$ \$ \$ \$ 16	
Tune Coeff, Per J. Average elapsed Kr. Kr. Kr. 1 (cm/sec) (cm/sec) (cm/sec)	27.6	چ ا ا	560 (55/-10
Test & 1 Dry No of Time Initial of W.L. Final of W.L. Temp Figure Coeff. Per, Average Job No Unit W.L. Stando	18	425	1,560 6:3/-70
temp.	•	æ	
W.E.	209	3	9
E 1	25.65	26 00 52	1-1010 10 1-1216 60
d W.L		\$	চ
Initial		26 800	166
⊒. Time	- زچ	~	m
No of Standp.		4	
Test & Dry No of Job Ho Unit W.L. Standp.	KNA	101-4 13.07 4	
Test & Job Ho	1	401-4	

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[2		0.8019			í	<u> </u>	8/			0.801			
¥	(cm/sec)	ĭ	3.45.0			Average	7.	(CD/28C)			116.5	1		
\$	D-ft-m H, (cm) D-tt-m H, (cm) °C 1 (sec) (cm/sec) (cm/sec)	5460 3.13.154	546 3.49.40 3.49.60 6.80.19.280.10	5400 3.47.40		Time Coeff, Per, Average	¥	(rm/km)		116.63	1. 1. 1. 5/4/6. 60 0. 9. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		170 1500	
pasdela	1 (sec)	348	ş	2400		- ine	elapsed	· fear		700	(8	3	
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ب 3	H, (cm)	613		509			Final of W.L		LIS CH	0 09		9000	53,0	ŀ
HUS & W.L. temp.	D.Y.W	2 921		١.			Final o		Ė			,)	
 ≥	(Cm)	2	\ \ \ \	\$		Ī	Initial of W.L.		Ë	115m 402 A	2	100.0	0 101	
Time Initial of W.L.	6-6-0	2x 8mm 101 2 231 613	17 17 17 17 17 17 17 17 17 17 17 17 17 1	209 050 - 1750 605	3				0-4-m H, (cm) D-4-m H, (cm) C (sec.)	37. Jens	2010	i	1	
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3 40	otal rop.		L	า			No of Time	Standb				~		
the state of the s	- C-14/15/15/15/15/15/15/15/15/15/15/15/15/15/		Š				Š	Job No Unit Wt. Standp.	, W.Y.		_	<u> </u>	_]
į.	8	T	101-11 (20)	:			Test & Dry	£ Ş				101-6/4.57		
	•					•					_			

COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đáu nước biển đổi)

bone nai 3 at consince more rever-Location of sample: Project : Depth :

Description of soil: Residual soil: Grown silty sauly described by the sail of the soil of

Volume V ; 120cm³; Height of standpipe : 100cm Area of standpipe Ct. ; 0.28cm²

Diameter: 6,18cm; Area A: 30cm; Height L: 4cm

Data of sample and apparatus :

Type of sample: Remouded to standard compression result Date of testing .

Kr = 41 Ln K & K200c = Kr TT cm/sec

	Test Gata	_								,			
Test &	È	200	Time	1	Initial of W.L.	Final of W.L.		Temp.	ejapsed ejapsed		Y Y	<u>خ</u> اخ	% %
9 6 7	Job No Unit Wt. Standy.	Stanch.	Ł	e de	0-h-m H, (cm)	D-h-m H, (cm)	Ψ, (cm)	P	(300)	(cm/sec) (cm/sec)	(cm/sec)	R	cm/sec
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102-1	102-1 1724	_ 	i^	L	Ę		6.68	200	98	50 -	Vorse.	0.00	30 300 150 - 5,0×10 0,8014 4,0×10
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			1										
Test &	Day No of	No or	III.	1	Initial of W.L.	First	Shall of W.L	Ġ	pasont those	time Coeff, Per.	X 7.	<u>د </u> :	¥.
8	Job No Unit WIL Stando.	Standp	*	F	H, (cm)	D-h-m 'H, (cm) D-h-m 'H, (cm) 'C	H, (cm)		() ()	t (sec) (cm/sec) (cm/sec)	(cm/sec)	_	cm/sec
_ـــ	i	:			Ş	28.20	2,50	٠	4200	1200 1800°	۲ :		7
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	-		<u> </u> ~	1	\$		3		4200 4.63				

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<u>* </u>		0 60 6	Š		
Average Kr	(cm/sec)	7	01417		
Time Coett, Per. Average etapsed : Xr Kr	t (sec) (zm/sec) (cm/sec)	9	4,31,56	4 (1)	
Time	t (sec)	2600	5	3	
Ė	ပ္		ន		
Shall of W.L. Temp.	D-h-m : K, (cm)	100 636	4tm 63.5 30	11 co 1523	
rates of W.L.	D-h-m H, (cm) D-h-m ; H, (cm)	2 800 402 2 800 636	502 002	- top 100 -100 (2.3	
 Ej	2	1 1		[<u></u>	
5 9	State of		w.	-	
è	XN/m²		44.53	\	
Test & Dry No of Time 1	JOD NO LATE SEEDS.		102-3 44.53		
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				3	<u>_</u>						7	
ž Š	cm/Seo	3.63.65	C. C. 3 to 10 5.10 to			. Kygec	:	cm/sec	ļ.	1 2 300 402 2820, 75.8		
5	R	a fold	<u>.</u>			ć		2		1		
¥	(cm/sec)	7	0			Average	×	(cm/sec)	Ī	0 77 5	>	•
×	D-h-m (H, (cm) D-h-m (H, (cm) °C (1 (sec) (cm/sec) (cm/sec)	3.53.10	3.00.10	2.4 10			lest & UV NOON Time Indiat of W.L. Final of W.L. Jemp. Hanged Kr. Xr.	(cm/sec) (cm/sec) (cm/sec)	ľ	. 67.75	1	
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Final of W.L. Temp.	H, (cm)	1 1, 1000 100 2430 60	E\$	ß		1000	, . K	1		75.8	K	
Final O	ė	2430	25.00	\$30			Z	3	5	282		
W.t.	H. (cm)	ğ	102	4			 ¥.:-	100	X4 (Cm)	40,	707	
Initial of W.L.	Ę	1	430	- 1350			E COM		Ę	2862		
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2	Standb	<u>.</u>	4			3	2	Standp			Ļ	•
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Test & Dry No of I Time	Job No Unit Wt.; Standp.		4D2-4 14-61 4				- 651 &	See No			7-2	
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COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đổi)

Diameter: 6.18cm; Area A: 30cm, Height L: 4cm DONG NAI COMBINED HYDRO POWER. Date of sample and apparatus: $TP2\,D-1$ Cocation of sample:

Description of soil: Residual Soil of Depth :

Type of sample: Remoulded to standard compression result Date of testing:

Volume V : 120cm?, Neignt of standpipe : 100cm Area of standpipe CL: 0.28cm² Formule of calculcation :

KT = 21 LNH & K200c = KNT cm/sec

		L	!		l
1	2	-	~	M	Time
No OK	Standb.		~		No or
È	Job No Unit Wt. Stando.		202-1 12.99 1 2		Test & Dry No of Time
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¥	(CM/SRC)	,	2		Average	₹	(cm/sec)	4,	erical ra		Average	ž
stapsed Kr Kr 777	(cm/sec)	2,12,10	30 6.60 Ztorio Ztole Cypie	660 2.4x8-	Sime Coult Per. Average	×	(cm/24c)	1320 + 8-13-16 - 0 0 - 6 0,8019 - 15-16-16	9.64.10	150x 1.0kx	Time Coeff, Per. Average	¥
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Final of W.L.	D-h-m H2 (cm)	74.7 60	44 53	28.4		Final of W.L. Temp.	D-h-m [H, (cm) D-h-m [H; (cm) °C 1 (sec) (cm/sec) (cm/sec)	822 70	825 400 349 65 50	35 028		Final of W.L. Temp.
Time Initial of W.L. Final of W.L. Temp.	D.h.m M. (cm) Doh-m Hy (cm) TC 1 (sec) (cm/sec) (cm/sec)	74.7 60 630 2300	15 110	820 100		Linitial of W.L.	D-h-m 'K' (cm)	9 to 102 822	825 400	355 102		Time Initial of W.L.
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	Standp.		•	•		800	Standp.	•	7	٠.		NOON
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Test & Dry No of	Job No Unit Wt. Standp.	1	204-6 11.22			Test & Dry No of	Job No Unit Wt. Standp.	: <u> </u> -	204-21246 2			Test & Dry No of

- 1									
cm/sec	•	2960	201-3179[3 2 1, 1, m 1/m 1/m 1/m 202 20 30 3000 2/82 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/		,	2	385/W3	13072 2.8740 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
ļ.º		0.8010	3			<u> </u>	R	01/0	رج غ
, Kr	7	*	4.4 ×10 .		Average	¥.	(cm/sec)	9	
Time Initial of W.L. Final of W.L. lemb elapsed Ky Ky	(carsec)	9 Y	40.2	2	Sec. Dec	Test & Ory No of Time Initial of W.L Final of W.L Temp. elapsed Kr Kr	0-1-m H. (cm); 0-1-m [H, (cm)] "C (cm/sec) (cm/sec)	2,4210	24210
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Time Coeff. Per. Average	M D-h-m H, (cm) D-h-m H, (cm) C ((sec) (cm/sec)	20 3.44.6 35	25.00 3.25.41F
- Temp.	2 2	30 2	2
Final of W.L. Temp.	D-1-0	4047 16	# 40 LS
Test & Dry No of Time Institut of Will	0-h-m H, (cm)	3 20 10 40 345 60	11 mm 100 # 4 40 15
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25 25 3	KN/m ³	N. 6. 3. 3.	

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7	35,410		Average	Ŋ.	(cm/sec)	_	ز کد	<u> </u>		
	44.4	Tark 3.23.15	Coeff, Per.	¥	(cm/sec) (cm/sec)	40.1		4 X	346 344 b.S	
ć	25.0	125.52	Time Coetl, Per. Average	elapsed	1 (500)	20.5	1	20 400	346	
	8			Temp.	ų		ļ	30	ļ Ļ	Į
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COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biến đổi)

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	286	Campion of sample :
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Volume V: 120cm., Heigin

Area of standpipe a: 0.28cm Formule of calculcation : Description of soil: Redding bron

Depth :

Type of sample : Remoulded to standard compression result Date of testing :

Kr = 21 Ln Kr & K200c = K Tr cm/sec

X		Sec Misses	Ť	2010			3		OH / HO	ا ا	Ì			X 36	200		Y				>
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Coeff, Per, A	¥	(cm/sec) (cm/sec)	77 2.5.16-4	\ <u>\</u>		7 27	Crest Per Average	, ×	(cm/sec) (cm/sec)	126.16	268 - 2	2.6		Coeff, Per. Average	ž	(cm/sec)	7.000	21			Charle Der Average
1 mg	_	t (śec)	7,		}			pescere		ន្ទ		151		Time	elapsed	(Sec)	2880	2880 7.2 -	79.00 C.94		
		ນ		1	8			Temp.	د ا	•				7,000		د ړ ن	_	1			
	Final of W.L. Temp.	0-h-m K, (cm)	[,	3	3	9		Haz of W.L Temp.	0-h-m ; H, (cm)	9	9	09		Temp	7 1. 5 GUL	D-h-m : H+ (cm) · °C 1 1 (sec)	09 00772	0,2	9		
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cm/sec	60210	4	CM/Sec		3.020	
£ 2		۱	F 8	1	<u>.</u>	
K, (cm/sec)	15 10 F	Average	¥ 4	A CHILDREN	275,10	
lime (con. re. Kr. Kr. (con/sec) (con/sec)	1	Time , Coett, Per. , Average	ž.	(caryac) (caryac)	600 3.75-10 3.75-10 5	9
initial of W.L. Final of W.L. Temp. 2015 (cm/547) Ohm H, (cm) Ohm H, (em) 7 (cm/547)	2880 7.2 - 3000 7.6	967	posdel	(38)	500	
_ ՝ <u>Դ</u> վ-՝			Temp	۲	: 1	
W.L H _r (cm)	222	١	, W.	<u>3</u>	t l	14
First of	4.30 55		Sinal	# 6	i L	
H, (cm)	\$ \$ \$. W.L	H, (cm)	Ę,	\$ 50 50 50 50 50 50 50 50 50 50 50 50 50 5
Time imital of W.L. Final of W.L.	24 27 472 24 544 60-11 945 472 - 435 53		Time Initial of W.L. Final of W.L. Temp.	0-h-m H ₁ (cm) D-h-m H ₂ (cm) °C	l i	1
الح الله	+12/		Time	'n	7	م, ر
No of Standp.	-4		No of	JOS NO LURIT WALL SAMING.	v	n
Skir Wt.	4,12		é	SV/m²		#5.53
Test & Dry No of Job No Of XNV Stando	202-4-44.62		Test & Dry	£ 8		202-5 8.53 3.
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	Le mo	ų			1			
	Final of W.L. Temp.	D-h-m 17- (cm)		28	ક		2	
	Test & Dry No of Time Initial of W.L.	2 (wa) 41 may 0 1 mg	The Line of the Control of the Contr	Ę	t		400	
	Ę	•	2	•	ŀ	7	'n	
	No of	Standb.	1	L	7	_		
	ğ	JOD NO LINK W.L. Standb.	S/m/			2-6-58		
	2 153	≨				3-20	•	

COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biến đổi)

Dismeter: 5.18cm; Area A: 30cm, Height L: 4cm Data of sample and apparatus : DONG HA! 3 44 COMBINED HYDROPOWER.

Location of sumple : Deptn .

Volume V : 120cm³; Height of standpipe : 100cm Area of standpipe a.: 0.28cm² Formule of calculcation . Description or soil: Radding brown silty couly day. 2.0 - 25

Type of sample: Remoulded to standard compression result Date of testing :

KT = 21 LN 1 & K20°C = KTT CM/SEC

30 465 (45, 10 4 0, 2019, 9.2 10 7 CHASE 300 Š 5 5 (cm/sec) (cm/sec) Time Coeff. Per. Average ¥ pasdera Sec. Ē Temp. ပ D-h-m H₂ (cm) First of W. 9 3 D-b-m H, (cm) 403 5800 403 Initial of W.L. 40.3 1 E ż -|~|~ Unit Wt. Standp. No of Yest data 3D1-11 120 કે Test Test & Job No.

5,12,10 1,91,515 5 5 ŀ - 1200 (43.10 & 638.10 f 840 2.404.65 - 840. 2.364.65 2384.65 (cm/sec) (cm/sec) \$40 2,35,10 Cell, Per. 1800 638, 10 to (cac/iii) (cac) 1 , 3 C t (sec) (cm/sec) Temp. | elapsed Yemp. 150 4025 - 141 58 - 150 4025 - 164 58 0-h-m H, (cm) 0-h-m H, (cm) 0-h-m H, (cm) D-h-m H, (cm) First of W.L x820 403 1 5834 60. Final of W.L Initial of W.L. Initial of W.L ě <u>.</u> Tile. 'n Job No Unit Wt. Standp. Job No Unit Wit. Stando. No or ~1 75'71' 2-**€** è E/X ફે Test & '

ا گ^{ھ 2}2 Cm/Sec Š 2500 28000 -4 257x106 Ohm H, (cm) Ohm H, (cm) C 1 (sec) (cm/sec) (cm/sec) Time Coeff, Per, Average | 54000 | 2.15 x 10 4 54 00 28Talo 6 Initial of W.L | Final of W.L | Temp. 15-10- 40 5-1120 Ft. 1130 100 5 - 1300 L. 79 003) -1450 400 , au ٠ پ NOO Job No Unit Wt., Standp. 4 N-4 (3.55 <u>اچ</u> Š 176

6(7)-6 Ž, E | E (cm/Sec) 7.70,10 Coeff. Per. . Average 2400 7,61×10-6 t (sec) (cm/sec) 2000 Temp. ى 1-420 : 403 -1 500 : 62.0 5-1000 400 500 61.3 D-h-rs H, (cm) Final of W.L. 420 D-h-m H, (cm) 8 Initial of W.L. \$ Time Job No Unit Wt. Stando. in 13.44 Ě Š £

50m)7 CM/Sec Š £ 6 ŧ 15.04.13 (cm/sec) 360 Carles 1 (sec) | (cm/sec) 360 S. Calo ¥ Ě Yemp. D-h-m H₂ (cm) First of W.L O-h-m H, (cm) 5 to 30 100 क्षा क्ष ≀rivitial of W.L i. ž ~ Standb. No Of 42.35 Ory Wit EN/NX 321-6 Test & 8

COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đổi)

Diameter: 6.18cm; Area A: 30cm, Height L: 4cm Volume V : 120cm2, Height of standpipe : 100cm Dong nat 3 k 4 combined any dropower Data of sample and apparatus : TP3D-2Location of sample:

ocation of sample .

4,5 - 5,0

Description of soil: Reddink brown Lateusk graved with.

Description of soil: Reddink brown Lateusk graved with

Type of sample: Remoulded to standard compression result

Date of testing :

294/E K. - ALLAN & X20°C - KTT. Formule of calculcation .

Area of standpipe a: 0.28cm³

, 3014 2.59, to Š **₽**|₩ 302 53 13.3. (cm/sec) (cm/sec) Coeff, Per. Jan 25 52 74. <u>8</u> Time Temp. ပ္ D-tr-m H, (cm) 9 9 First of W.L 0-h-m K, (cm) 25 200 300 ş ğ Initial of W.L. Ë 2 Standb. No of Yest data Job No Unit Wit. 302-1 43.72 É, Š Test &

2.48.10 ŝ £|£ I 50-1-510-3.74-374-5 (cm/sec) (cm/sec) (cm/sec) 50 --- 540 3.74.2105 Temp. etapsed e i 0-h-m : H, (cm) 9 FINE OF W.L. D-h-m H, (cm) \$ Initial of W.L <u>.</u> <u>1</u> NO 06 Job No Unit Wt. Stando. 302-214.70 ξį ô Test &

8. 48. 10 Cm/Sec ķ 406,405 (cac/mc) (car/sec) (car/sec) 1 3. -2000 - 106yoļ Temp. | etapsed 4800 1100 N° | 0-h-m H, (cm) 0-h-m H, (cm) Final of W.L. 9 09 0501 - 1030 600 - 4050 400 - 4600 60 25.930 300 25.000 Time Initial of W.L. Job No | Unit Wt. Standp. Dry No of 302-3 45.52 (M/M) 1651 G. I

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(Soo 6.34

3 - 9 50 (02 - 430 74.5

M

304-3 43.23

5,4,106 X B Y cm/sec 들은 į 3000 1 (35410 635910 (cac) (cac) (cac) (cac) 3000 Temp. D-b-m H, (cm) 256 co 100 25 450 60. de 100 - tevo 60 9 00% First of W.L O-1-0 8 Initial of W.L. 8 \$... 1,000 No of Job No Unit Wit. Standp. 4 KS/m² 205-4-15,65 Test & 1 Dry

0,5019 14,2 Mg SEC. š £ 8 × 30-7-1260 4.5440 Coeff. Per. Temp. | elapsed . (III) (sec) 3 မှ D-3-m 14, (cm) 0-11-m 14, (cm) 9 Final of W.L -4555 ton - NIB 60 2513.00 . NOT 25-1221. 230 400 - 02 Initial of W.L. Time 'n Standp. 'n 200 Job No Unit Wt. 302-545.08 충 Ē

7.00 cm/sec × Ž ol 88.2 (cm/sec) Coeff, Per 01×352 99 elapsed Temp. D-h-m H, (cm) D-h-m H, (cm) Final of W.L 400 8 Initial of W.L E E ż Standb. Job No Unit Wit. 302-6 14.09 Š è Test &

COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đổi)

DONG NAI 3 & 4. COMBINED HYDROPOWER, Data of sample and apparatus:

Dameter: 6.18cm; Arra A: 30cm? Height L: 4cm

Dameter: 6.18cm; Arra A: 30cm? Height C: 5.0cm

Z. 0 - Z.5 Description of soil: Residual soil: brown silty sandy day Area of standplot a. : 0.28cm² Location of sample:

Type of sample : Remoulded to standard compression result Date of testing:

Kr - 21 Ln H & K20°C - K-17 cm/sec

Test & Dry No of Time initial of W.L. Rinal of W.L. Temp. atayaed Kr Kr Kr Kroncombon No of Time initial of W.L. Rinal of W.L. Temp. atayaed Kr Kr Kr Kr Kr Kr Kr Kr Kr Kr Kr Kr Kr		-	. –	-			-	-				
Time initial of W.L. Final of W.L. Ter 20-brem H ₂ (cm) Dohum H ₂ (cm) ACD 62 3 400 400 60 80 80 80 80 80 80 80 80 80 80 80 80 80				`		_		٠.		_		
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# 2 4 1 1 W # 5 4 1 V		d W.L	H, (cm)	8	400	\$		of ₩.t.	H, (cm)	101	9	1
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Test data Job No Unit Wr. ADI 11, 18 Test 8. Dry Job No Unit Wr. Test 8. Dry Job No Unit Wr. 4,01-2. 12.42		% of	Standb		-1			No of	SISTOR		~	
Test & Job No Test & Job No LD(-4	Yest data	à	Unit Wit		4.18	:		è	Unit Wit.	1	12,42	!
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	- -	•	S KA			1	5	Ŗ.	6.00.9		
Average	ž	(cm/sec)	12.40			Average	×.	(cm/sec)	51.10		
. per.	elapsed Kr Kr	t (sec) (cm/sec) (cm/sec)	Solo	. 01 45		Time Coeff, Per. Average	¥	((sec) (cm/sec) (cm/sec)	5,1 . 167	4.8 mlo '	
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	E C	D-h-m : K, (cm) D-h-m : H, (cm) C	£8435e	24.33			Initial of W.L. Shall of W.L. Temp.	0-h-m (H, (cm) 0-h-m H, (cm) C	288	21630	
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	Test & Dry No of Time Initial of W.L. Read of W.L. Temp.	0N 60		₹-36.43 3	7		- Fa	Not doc		401-41-47-42 4 2 27-55 401.2 29-46.30 70 - 5	r E
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<u> </u>	165. A	Test & Day NO OF	No or	Ē	LINE OF W.L.	Final of W.L. Temp.	den j	elapsed	¥		.] _e		
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COEFFICIENT OF PERMEABILITY TEST (Failing head method) THI NGHIËM HË SỐ THẨM (Phương pháp đầu nước biến đổi)

	$K_T = \frac{ch}{At} \frac{Lh}{H_2} \frac{c}{c} V_{2} \frac{c}{c} = \frac{K_T^{-1}}{H_2} \text{ cm/sec}$
Project: Location of sample: TP4D - 2 Cocation of soil: Recording soil of soil: Browns silf soil of soil: Recording soil of soil: Resolute soil of	Type of sample: Remoulded to standard compression result outs of testing:

Type of sample ; Remouded to standard compression result Date of testing ;

1 1 1 1 1 1 1 1 1 1	× 200		S :	Ų	۸ 9 ۲	1			CHASEC		7	9	1		 Y W	cm/sec		9,			<u> </u>	Š	Jas/EC	4,) }	
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12, 13 d 2 d 10 d 10 d 10 d 10 d 10 d 10 d 10				ì	, 52ke	1					7	3xe		20000	¥	(cm/kec)		4	ex. 3		Average	¥	(cm/sec)	ų,	のなべる	
12, 13 d 2 d 30 d 1 may d W.L	4 24. Pg			5-01×9	3 . 3	- 3		seff, Per.) (paywo	9 5		- 87		, ref.		٠.	, dest.		17.16	à	×	(cm/sec)	7,527,5 P	79.27	
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1651 & Job No 16		Š	Jat W.	E N	;	2.13			<u>ک</u>	Valent Valent	٠- ا ا	-	28.7		г.	Lingt Wit	V.N./m3		,	٠ <u>٠</u>		Š	Unit W.	KN/W	!	
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£ 2	Store			£		0.00/4	1		L					
Kr Kr (cm/sec)	27.4.16		Average	ž	(CHI/Sec)	1	9		Average	غد	(Cm/kec)	'n	435,240	
	10 P	200	Time Coeff, Per. Average	Ž.	(cm/sec) (cm/sec)	S. C. 1. Sp. 10-2	7	3	Time Costs Per. Average	£	(cm/sec)	3m 9.39.102	2	3,00
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Final of W.L. 1	1200 66.3	757 5041-1		<u>8</u>	O-h-m 14, (cm)					E H	E-4-0			\
1 1	200 000			 ₩.	O-17-0	Ę	Ĵ	ş	أ	1.W.	D-3-m 1K, (cm)	!	8	8
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	13.3.7			કે	JOB NO Unit WT. STAMP.	E/A/	122,d 12 29	i		ś	Job No Unit WT. Stando.	<u></u>	1	4X4 17,6X
Test & Dry Job No Unit Wt.	402-4 13.37			Yest &	운 항		182,0			Test &	SE NO.		164	\$ \$
				: ·			٠.			<u>:</u>				

COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp cầu nước biển đổi)

DONG NAT 3 of COMBINED HYDED POWER. Date of sample and apparatus:
TPSD-1.
Observer: 6.18cm, Area A: 30cm; Height L: 4cm Volume V: 120cm2; Height of standpipe:: 100cm Depth: 2.0 - 2.5 Four sound sitts clay of basalt Area or standing a : 0.28cm obscription of soil: Brown sounds sitts clay of basalt Framer's classication: Location of sample:

Formute of calculcation : Type of sample: Remouded to standard compression result Date of testing:

. Date of testing :

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COEFFICIENT OF PERMEABILITY TEST (Failing head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đấu nước biển đổi)

Project: Dong NAY 3 a 4 COMBINED HYDROPOWERDERS of sample and apparatus: Location of sample: TPSD-2 Diameter: 6.18cm, Area A:30cm, Height L:4cm Volume V ; 120cm?, Height of standpipe ; 100cm

Area of standpipe a : 0.28cm² Formule of calculcation : Description of soil: Residual soil of basalt: Brown stry sounds day.

Type of sample: Remoulded to standard compression result

Test & Dry No of Time Initial of W.I. Final of W.I. Temp. Time Confl. Per. Average 17r Kwat. Sunda. Nr Duhm H, (cm) TC 1 (Sec) (cm/Sec) (cm/Sec) 17r cm/Sec NK/km² Nr Duhm H, (cm) TC 1 (Sec) (cm/Sec) (cm/Sec) 17r cm/Sec SD2-4 1.5TO 1 2.2 - 9 00 0.00. 8 00 60 30° 52.0 2.98.10° 2.78.10° 0.8019 2.73,10° 5
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Lai of W.L. Final of W.L. Temp. Time Coeff. Per. Average Kr. Mr. Mr. Mr. Mr. Mr. Mr. Mr. Mr. Mr. M
Lai of W.L. Final of W.L. Temp. Paragoad Kr. m. H. (cm) Dubran H. (cm) T. T. (ses) (cm/sec) Lag 1861 3.50, 46 50 5.00 2.50 2.60 to 100 100 814 60 550 2.78 s. 10-7 to 100 100 814 60 550 2.78 s. 10-7 to 100 100 100 100 100 100 100 100 100 10
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COEFFICIENT OF PERMEABILITY TEST (Failing head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đấu nước biển đổi)

Diameter: 6.18cm; Area A: 30cm? Height L: 4cm DONGNAL 3 44 COMBINED HYDROPOWER 0213 of sample and apparatus: TPGD-4 Diameter: 6.18cm; Area A: 30c.

Location of sample:

Description of soil: Residual soil of batalle: Brown sister sandy elay.

Type of sample : Remoulded to standard compression result Date of testing :

Volume V ; 120cm², Height of standpipe : 100cm Area of standpipe at : 0.28cm² Formule of calculcation .

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COEFFICIENT OF PERMEABILITY TEST (Failing head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đấu nước biển đối)

cong hais at combined hydropower. Location of sample: Project:

Description of soil: Brown soundy sith, clay.

Type of sample ; Remodded to standard compression result Date of testing ;

Diameter: 5,18cm; Area A: 30cm, Height L: 4cm Volume V: 120cm³; Height of standpipe: 100cm Area of standpipe a: 0.29cm² Formule of calculcation :

Oata of sample and apparatus ;

Knoc = Kerr cm/sec 수 위 시간 지각

Test & Day No of Time Initial of W.L. Final of W.L. Temp. Figher (Conf. Per. Average V.L. Stando, N	X.	1 2 2		0,8019 1.5×6			7) Kyone		╁	اب ب	017257			7)1 Kance		Canada		0.1019 352.lb			//r Kade	1	/w cm/sec	Y	07.73	1		1		771 Kyade 7720 cm/zee	1 1	1 1	1	I I I I		
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Dry No of Time	-	_	H, (cm)	8	an an	20.	-		H; (cm)			1			roal of W.L	(W.)			13		-	nitial of W.L.	(M) (cm)	-1	Т	707] []	¥. (cm)	M. (cm)	4 W.L H, (cm)	4 W.L 102 102 103	4 W.L 102 102 107	4 W.L 102 102 103 103	4 W.L 102 102 103 104 104 104
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COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đấu nước biến đối)

Diameter: 5.18cm; Area A: 30cm² Height L: 4cm Volume V : 120cm²; Helght of standpipe : 100cm Data of sample and apparatus : DONG NAI 3 4 4 CONTINED HYDROPOWER TP7D-1 Location of sample: project ..

2,0 - 2,5

Depth :

Description of soil: Laterit gravels with clayer sand

Area of standpipe a: 0.28cm²

Formule of calculcation:

Type of sample: Remoulded to standard compression result Date of testing:

Kr = al 1, Hr & K200c = K Th cm/sec

30°C 284 6.72 - 6.72,10" 4.8019 5.440 4 CM/Sec Š 5/2 Time Coeff, Par. 28 6,8410 77.5 Final of W.L . Temp. elapsed 0-h-m H₂ (cm) 匌 3 N-h-m H. (cm) Ą 튁 103 Initial of W.L. Time. Job No Unit Wt. | Slandp. 전기 13.09 ξ≅/₩X č Tes: &

2.54.10 cm/sec Å. £ | £ 600 3.1P. 16. 5.17.16.E. (ces/mo) (ces/mo) (ces) 1 ...600_312.10°F. 13 E elapsed Temp. 0-h-m : H2 (cm) £400 400 £31.40 -60 Final of W.L. D-h-m H, (cm) Initial of W.L. Time Job No Unit Wt. Standp. 20 Of KN/m3 1-2 13.63 Jest &

4.12,106 ş ÷ ÷ į "C : t (sec) (cm/sec) (cm/sec) 3246 - Sylvain 6 5,14 4106 Time Coeff, Per, Average 3780 S.Ottalo Temp. | elapsed N. D.h.m H, (cm) D.h.m H, (cm) Final of W.L. 9 # 50 400 400 612.05 60 2 240 102 - 13 16 60 5 - 13 30 404 |- 13 35 60 Initial of W.L. ë Job No (Unit W.L. Standp. est & | Ory | No of 704-3 44.07 KN/m²

211,00 5200 3.66.10 - 367.10 6 5300 3.62210 -°C ((sec) (cm/sec) (cm/sec) Time 'Coeff, Per. Average -5400.3.6720-6. elapsed D-h-m H, (cm) | D-h-m : H, (cm) 1309 4015 - 1430 St.2 3.12 mst Initial of W.L. Frank of W.L. \$ 14 00 102 812301.50. 1250 101 2 NO Of Job No Unit Wt. Standp. 101-4 14.21 KN/N Test & 1 Dry

175x10-6 4800 1902 10 Day t (sec) (cm/sec) (cm/sec) Time Coeff, Per. Average 1900 4.35x10 pasdere Real of W.L. Temp. O-b-m | H, (cm) | D-h-m | H₂ (cm) 1 4300 1.403 1.8330 1 65,6 - 1400 103 -1430 656 Time | Initial of W.L. Test & Dry No of Job No Unit Wt. Standp. Ŋ DI-5113.82 E/S

Ž. 460 425 42540 44.0 4.25 Jan etapsed (3ec) Temp. D-1-m H2 (CM) Final of W.L 0-h-m H, (cm) Initial of W.L Ē Sando los W. Stando 701-6 12.86

COEFFICIENT OF PERMEABILITY TEST (Failing head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biến đổi)

Diameter: 6.18cm; Area A: 30cm, Height L: 4cm Volume V : 120cm²; Height of standpipe : 100cm Dong NAI 3 44 Combined attoropower. Data of sample and apparatus : TP7D-2 Dameter : 6.18cm, Area A : 30 fe: Project :

Location of sample:

Depth: 2.0 - 2.50
Description of soil: Reddish brown Laterit gravels with sitty clayer dama.

Type of sample; Remodded to standard compression result Date of testing:

Area of standpipe a: 0.28cm² Formule of calculcation : Kr = 21 Ln 14 & K200c = K 17 cm/sec

	ž Ž	Cm/Sec	1	22 9.47 - 9.57 to 0.4045 7.55x46		
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ezi oara	ος S	SOUTH WELL SHEEKLY		83 ¥•		
į	Test & Dry No of Time Initial of W.L	200		7D2-1: 4:88		

Test & Dry No of Time Initial of W.L. Final of W.L. Temp. 44pped (cm/Sec) (cm/Sec) 17p Knye. Job No. Unit W.L. Stando, Nr. D-b-m H. (cm) D-h-m H. (cm) T. C. (cen.) 12p cm/Sec) (cm/Sec) (cm/Sec) (cm/Sec) (cm/Sec) (cm/Sec) 17p cm/Sec 7722-2 12.64 2 2 2 02 60.43 30 360 5.4 s. 65 5.4 s.					- ·
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≇ §	Unit Wit	Job No Unit Wr. Standp.		¥.	5	D-b-m (H, (cm.) D-b-m (H, (cm.) C ((sec) (cm/sec) (cm/sec)	ပ္	t (sec)	(cm/sec)	(cm/sec)	2	Curkec
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	cm/sec) 1/20 cm/sec	¥	36x10 5,5x10	
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COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đổi)

Diameter ; 6.18cm; Area A ; 30cm² Height L ; 4cm Volume V : 120cm*, Height of standpipe : 100cm dong in 3 %4 combined hydropower, data of sample and apparatus: TP8D-12.0 - 2.5
Reddish brown sitty samily clay. Area of standpipe a. : 0.28cm? Location of sample: Description of soil : Depth :

Formule of calculcation .

Type of sample; Remoulded to standard compression result

Date of lesting:

Kr = AL Ln H2 & Kyooc = Kr Tr cm/sec

300 65 16 20 16 Cold 50019 50010 cm/sec ř ÷|÷ (cm/sec) 300 16 46 16 5 (Sec) pasadela 9 Tamp. ጴ D-h-m N2 (cm) Final of W.L 0-h-m H, (cm) 202 1. 3.Cm 10.L Initial of W.L 3 Job No | Unit Wt. | Standp. 8 Test data \$2.7 F75 Ž. Š Test &

0,8019 . 5,61700° Š ķ 뒤흔 2340 6.15 - 70710-6 (cm/sec) (cm/sec) ż 01×429 0822 2400 7.01 elapsed Final of W.L. | Temp. Temp 0-h-m H, (cm) -840 100.5 - 119 65 38.62 102.5 3.839 70 Final of W.L. 920 102.0 - 1000 65 0-h-m H, (cm) Initial of W.L. Initial of W.L. ř No or No of Job No Unit Wt. | Slandp. N E I est & Ory アンドンス ક Test &

cm/Sec 0453.3: Par. £ 2 10807 840 - 65x10 40800 C.M. 10-7 t (sec) : (cm/sec) 4.600 02 0.08 00 VI D-h-m , H, (cm) - 1300 H.S 2 3 cm 4010 3 4000 20 2 D-h-m (H, (cm) -400 to2 - 4 A 162 Ē Job No ; Unit Wt. Standp. 304-4 42.63 ZW/W ෙ

4.4.3.10.4 × ÷ | & į 6000 48310 6 48310 6 D-h-m , H₂ (cm) , C 1 (sec) (cm/sec) ; (cm/sec) Time Coeff, Pec. 6000 1579×10-4 clapsed Kr Тетр Shall of W.L 4133 76 430 402 - 43th It D-h-m H, (cm) 3 \$ 00 400 43 Initial of W.L. Standp No of Job No - Unit Wt. S.W. 801-3/12.99 š

CM/Sec cm/sec į. E | E 5/2 01408 0 01 2018 dett.) - 72, 0002 Coeff, Per, L Average Coast, Per. dela 8 one 16000 457 x 16" Temp. Temp Ohm H (cm) O-1-0 - Mrts : 74.8 3 5 00 403 43 40 40 1.80.4. 125 SEL First of W.L Final of W.L 3 8 20 4 2 3 40 20 30 0-1-m H, (cm) D.h.m. H. (cm) 4 Imital of W.L Initial of W.L -1230 (03 328 i just i Ē Job No Unit Wt. Standp. Job No Unit W.L. Stando. Noo Lo 301-512.65 E/AX È Test &

COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đổi)

Diameter: 6.18cm; Area A: 30cm," Height L: 4cm DONG NA! 344 COMENED HYDROPOWERDSIS OF SAMPLE and apparatus: TP8D-2 Location of sample:

Volume V : 120cm²; Height of standpipe : 100cm 4.5 - 5.0

Reddish Frown silty sandy clay. Area of standalpe a: 0.28cm² Formule of calculcation

Description of soil:

Depth :

Date of testing .

Type of sample : Remoulded to standard compression result

K. - 21 Ln H. C. Knoc - KH cmise

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COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đổi)

Data of sample and apparatus :

DONG NA! 344 COMBINED MYOROPOWER. TP9D-1 2.0 - 2.5 Cocation of sample: Depth :

type of sample; Remoulded to standard compression result Description of soil: Brown sandy silty chay.

KT = 21 LA H2 & K200 = K7T CM/SEC

Diameter: 6.18cm; Area A: 30cm² Helpht L: 4cm Volume V: 120cm²; Height of standpipe: 100cm Area of standpipe Ct.: 0.28cm² Formule of calculcation .

Diameter: 6.18cm; Area A: 30cm² Height L: 4cm Volume V : 120cm²; Height of standpipe : 100cm Data of sample and apparatus : Area of standpipe Ct.: 0.28cm² DONG NA! 344 COMBINED MYDROPOWER

COEFFICIENT OF PERMEABILITY TEST (Falling head method)

THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đổi)

Formule of calculcation .

Deptin: 6.00 Soil: Brown Sounds silty clay

TP9D-2

Location of sample:

Kr = 31 LN H & X20°C = KTT cm/sec

Type of sample: Remodded to standard compression result

Test data Date of lesting.

6,8015 233×109 ķ 60 30 660 250 250 2.90 10⁵ t (sec) (cm/sec) (cm/sec) Time | Coeff. Per. | Average ¥ Coeff Per 660 2.03.10 Ą (ime pasdes E O 0-h-m H, (cm) 9 9 First of W.L. 8 O-h-m X, (cm) ğ 8 Initial of W.L Ļ Ě Job No Unit Wt. Standp. ş 902-1 11.52 W/W λ Test &

2014299 PIO810

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Test data

Date of testing:

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- 4130 402 - 1200 65.0 - 4300 102 - 4330 65.0

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Final of W.L.

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2 2 Unit Wt. Standp.

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CMASec

C : 1 (sec) (cm/sec) (cm/sec) 9000 1.15x10 6 1.4x106

4000_ 437.48

Coeff, Per, Average

Time

Final of W.L. Temp.

Initial of W.L.

Time. 2

Job No : Unit Wr. Slando.

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No of

rest & . Dry

0-h-m H, (cm); 0-h-m H, (cm);

distrio_7 cm/sec ķ ÷ 2 12600 118,006 1.19,10 ¥ No Other H, (cm): Other H, (cm): "C ((sec)) Time Costi, Per. 12600) (18 ×10) ź Temp. etapsed : ... 의 430 43 - 4500 49.2-3 8m 403 8 430 68.1 Final of W.L. Initial of W.L Ë Job No Unit Wt., Stando. 8 -1-KN/m 902-4 12.87 Test & . Dry

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Time Coeff, Per, Average

-200 1/1 mg

-4320 104.0 46m 76.5 30

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901-3 43,09

7-400 1025 TASO 33.4

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elapsed

Temp

Section of W.L. Single W.L.

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Test & 1 Ory

Job No Unit WT Standp.

45×10-6 CHASEC ķ 2 2 15,61,x10 3000 56410-6 "C t (sec) (cm/sec) - M2120051 elapsed Temp D-h-m H₂ (cm) 130 102 - 1550 15.0 \$ 4000 403 8.4050 65.7 First of W.L. D-h-m H, (cm) Initial of W.L Tine . Job No Unit Wt. Standp. Ŋ 302-5/12.25 E/X

20104 -cm/sec X 6 4 4 5.026 385 50 - 3 SEO SOLIO (CEL/Sec) pasdela (Sec) Time Temp, 0-h-m H, (cm) 3 38 First of W.L. લ 0-h-m H, (cm) 201 0053 Initial of W.L. 407 Ë NO OF Stando Test & Dry Job No Unit Wt. 8 902-6 41.27 KW/W3

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CH/Sec

(cm/sec)

t (sec) (cm/sec)

elapsed

1800 411 x10>

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Coelf. Per.

Time

40800 - 44 - 1030F 2 9% 40 102 -1000 515 30 1800 112,165 112,105 3 - 1800 102,165 112,105 'C it (sec) (cm/sec) (cm/sec) 24.8 30 Temp Temp. ۲ D-b-m H3 (cm) 143 102 - 640 Pr.6 3 4 000 102 TEM 265 O-h-m | H, (cm) | O-h-m | H₂ (cm) D-h-m H, (cm) D-h-m H, (cm) First of W.L. 29 02 82 4.205 00 55 7460 102 2230 JE Final of W.L. 43.00 1.02 - 4830 0-1-m H, (cm) Intial of W.L. Initial of W.L. E 2 • ż Standp. Unit Wt. Standp. ง No or 4 904-443.33 3 Job No Unit Wt. S 921-513.25 924-6 12.45 Š KN/W ò ŝ 0 40 0 ig S

54.65

5400 ZIG - 21746-61

5.13

5400 242 10-

CIII/Sec

((sec) (cm/sec) (cm/sec)

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glapsed

Coeff, Per, Average

A - 458

901-2/12.50 2

COEFFICIENT OF PERMEABILITY TEST (Falling head method) тні ngнiệм нệ số тнáм (Phương pháp đáu nước biến đối)

Diameter: 6.18cm; Area A: 30cm; Height L: 4cm Volume V: 120cm³; Height of standpipe: 100cm DONG NAI 344 COMBIND MYDRO FONIER, Data of sample and apparatus: Area of standpipe at : 0.28cm² TP40D-4 Location of sample:

· Formule of calculcation : Description of soil: Redding broom laterial granalis silly Description of soil: Redding broom laterial granal mixture Type of sample; Removided to standard compression result

Kr = 2L Ln H & K20°C = K T20 cm26C

Date of testing:

Date of testing:

20x8 THE .. P. 108.0 108.01 YOURS ÷ 423 - 123-6 (sec) (cm/sec) (cm/sec) 126×10 4 D-h-m H, (cm) Final of W.L Shak of Wil. 0-h-m H, (cm) Initial of W.L. Initial of W.L. Ę Test data
Test & Dry No of Job No Unit W1, Standp. Job No Unit Wt. Standp. 2 72.15 001-4 GTA Š KN/M3

СШБ Final of W.L 0-h-m H, (cm) 407 Initial of W.L. Job No · Unit Wt. Stando. est & Dry No of 001-3 E.47 Z.

Final of W.L

Initial of W.L.

Job No Unit Wt. Standp.

KN/m

Initial of W.L. | Final of W.L. | Temp. | Tamp. | Xx. | Kx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. | Xx. D-4 (5.8 Š

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1 1 1 1 1 1 1 1 1 1
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1 10 10 10 10 10 10 10
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COEFFICIENT OF PERMEABILITY TEST (Falling head method) THÍ NGHIỆM HỆ SỐ THẨM (Phương pháp đầu nước biển đổi)

Diameter ; 6.18cm; Area A : 30cm* Height L : 4cm DONGHAI 344 COMBINED HYDROPOWER, Data of sample and apparatus: TP100-2 Location of sample:

Volume V : 120cm²; Height of standpipe : 100cm Area of standpipe Co.: 0.28cm² Depth:
Description of soil: Readish brown Laterit gravels with
Stip, charges Send markers.

Formule of calculcation: Type of sample : Remouded to standard compression result

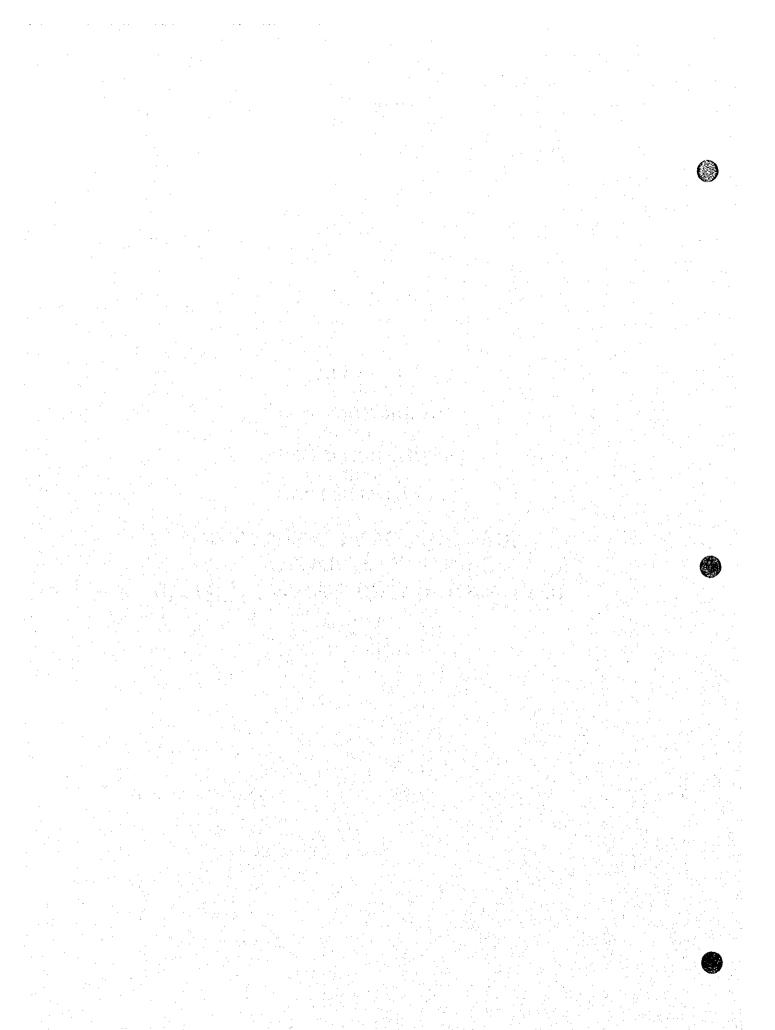
KT = 01 LN N & K200 = KTT cmsec

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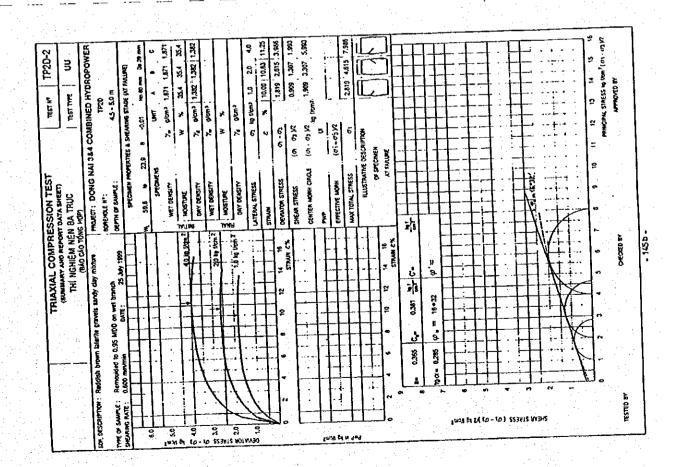
DATA 4.1.2

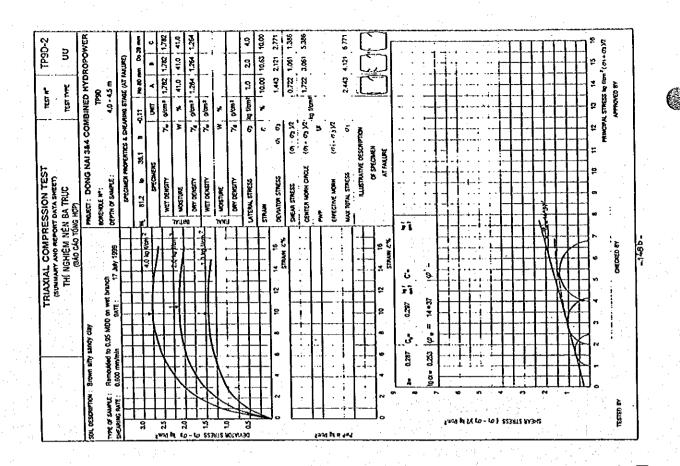
LABORATORY TEST
OF
EARTH CORE MATERIAL
FOR
DONG NAI No.4 DAM

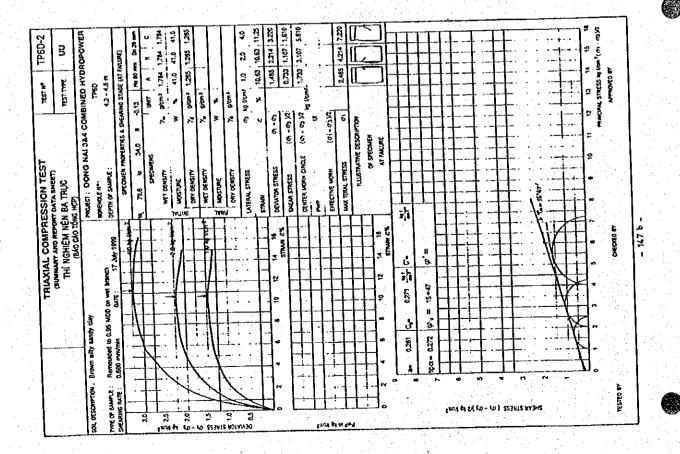
TRIAXIAL COMPRESSION TEST IN THE CONDITION UNCONSOLIDATED, UNDRAINED (UU)

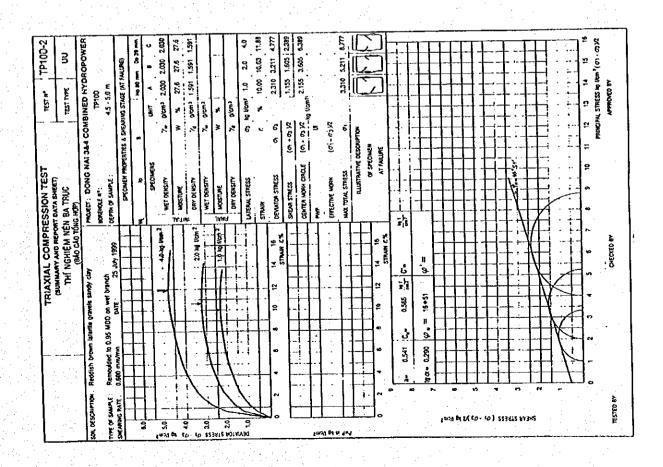


0,708 1,022 1,393 AL STRESS to Non? (01+03)2 74 octms 1,820 1,820 1,820 O3 kg t/cm² 1,0 2.0 4.0 10,63 11.25 11.25 1,708 3,022 5,393 2,415 4,043 6,786 MOLET: DONG NAL 3&4 COMBINED HYDROPOWER W % 40.0 | 40.0 | 40.0 1,415 | 2.041 | 2.780 TP40-1 Ne to mm De 38 mm 3 8 SPECIMEN PROPERTIES & SHEARING STAGE (AT FAILME) . 4 7. o/cm* 1.300 20-25 m TEST TYPE AEST W 2 7. o'cm3 7, g/cm³ 8 * 5(6.5) ç 6 5 6 6 2((0+10) 6 ILLISTRATIVE DESCRIPTION 72.6 to 31.6 a OF SPECIMEN AT PARLINE TRIAXIAL COMPRESSION TEST (SUMMARY AND REPORT DATA SHEET)
THÍ NGHIỆM NÊN BA TRUC (BÁO CÁO TÓNG HƠ?) CENTER WORN CIRCLE MAX TOTAL STRESS DEPTH OF SAMPLE; DEVIATION STREES DRY DENSITY WET DENGITY WET DEMENTY DRY DENSITY CATERAL STRESS EPPECTIVE NORM SHEAR STRESS MOUSTURE NOISTURE SONEHOLE Nº , -4971-STRAIN C'A CHECKEO BY Remoulded to 0,85 MDD on wet branch 2 8 G. # 13+49 9000 son, DESCRIPTION: Brown sifty sandy clay 0300 9CZ-0 -- DB THE OF SAMPLE: TESTED 8Y \$ 6.64 STRESS (O) - O) 25 SHIR FURT









DATA 4.1.2

LABORATORY TEST
OF
EARTH CORE MATERIAL
FOR
DONG NAI No.4 DAM

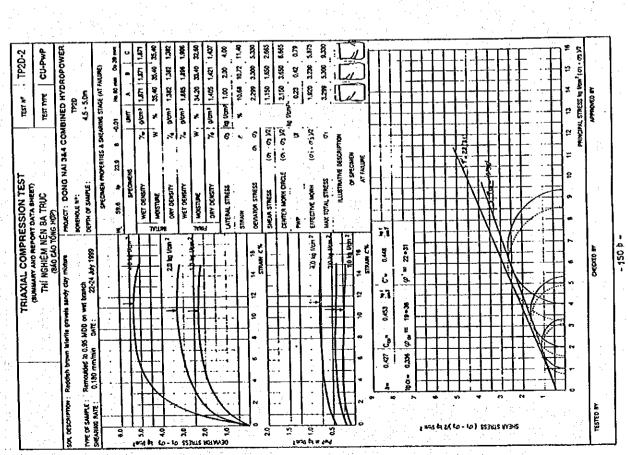
TRIAXIAL COMPRESSION TEST IN THE CONDITION CONSOLIDATED, UNDRAINED (CU)

TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

TP 2D-2

TEST NO. DATE STARTED: 22-7-99

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FRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)	Depth: 4.5	8	200	•	85	kg/cm²	2/(40+1)/2 (17,4013)/2 (17,4013)/2		2000	2,671	2.877	3.046	3.161	3 2	3333	3.441	3.482	3.522	355	5	65.6	3,520	3,640	188	3648	3,642	3.637	3	3,622	500	8000]
age da	റ്റ്					Stresses kg/cm²	7,50,00		800	0.671	0.877	1,046	1.161	22.5	3.5	14	1.482	1 522	45.	1.577	28	2	000	<u> </u>	168	1.642	1.637	18	1.622	200	000.1		İ		<u>. </u>	i			\prod			_
ng St			. 0	8	essure of		16		8	5	1.680	1.650	 1		3 5		38	.550	.55	1,550	S.	95	1,570	2 2	1580	1,590	1,590	1.68	<u>8</u>	8	3	T	T	•		Τ						
sheari	CU - ParP		Vertical stress of	Sack pressure Pb	Eff. cell pressure		1		8	202	3.438	37.42	2	8	3 .	3 8	1 2	4 593	4 659	Š	4.747	8	8		2 X	4.874	4.863	4.862		- Ł	4.76	1		.:-		I						
thod	- B			٦		7			g	<u> </u>	1,755	2032	2,221	250	3	8 2	2007	8	3.18	20.00	3.197	3240	3.269	3.236	3000	3.284	3273	3.262	3.244	3.209	3.161				İ						: :	
3	Test type.	CORD TIME IN	WICHOUS SIDE CITATION	İ	8	1	1		 	\dagger	\vdash	┞		+	+	†	- - 		• •			 		†	Ť	T	1			1	Ì									-		
EST (.		Without		Meliuma Vi 52 886 cm ³	Denistre etters Infilm			8		18	285	2.321.	2.506	3	8/2	8 8	9	3.109	3.154	3,197	3.240	3 269	3298	3300	2.084	3273	3,262	3,244	3.209	3.161											
NOIS		O COME	_i_ = i \$		1	+	_i c		5		1,869	1.945	12.022,	12.101	12.180	12,260	2,342	, t	2,533	12.679	12,766	12,854	12.94	13.035	13.127	13.440	13.43	13,509	13.607	13.708	13.810			1		T						
PRES		olect : DONG NAI 3&4 COMBINED HYDROHOWER	Load ring constant	20.00	Specimen prior to sinearing		- · • · 5	7	ko i/cm	020	R B	S.	0.38	0.40	0.41	2	5	¥ 4	S. S.	0.45	0.45	0.44	6	27	Ç	3	3 3	ļ.	ì		0.40		†	┥.		1			T	- -	Ţ:	:
1 CON	1720-2	COMBIN	, E	3	E Special				2	8 8	2 2	2,38	27.91	30,32	32.24	34.15 24.15	8 1	200	8 8	39.98	40.82	41.65	\$	42.98	8	75.57	2 8	407	ı		43.65		ì :]]								-
IAXIA	F	VAI 384	5	CIW/EE		7.926 Cm	<u>ş</u>	Ě	ö	8 8	3 8	8	33.50	36.40	38.70	5	270	R 9	8	8	89	8.8		. 1	- [1	2 2	8	Ι.	Ľ	22.40			7			\int					
=	4.7	900	. !	8 8				 - /	*	8	3 %	2	252	3.15	3.79	4.2		20 6		:	1	ı				- 1	E 5		4	1	15,14		Ţ							! _j_		1
		olect:	st type			Ficht Ha	HELES .	Š	0.0	0	8 8	3 5	8	X	g	જ્ઞ	8	S i	3 %	8	83	8	75	900	8	8	S 5	\$ 8	š	55	8				١	ļ				1		!

data sheet)	Depth: 4.5-5.0m Date: 24 July 1999	8	4.00 kg (/cm²	0 kg f/cm²		Stresses to ttem	(0,-0,)/2 (0,+0,)/2 (0,+0,)/2 0,40;			4.854	- 1	5,721 5,101	5,989	.l	6.395 5.675	6.481 5.751	6.532 5.792	6.583 5.833	6.615 5.855	6.630 5.860		6,656 5,000		6.653 5.878	6.665 5.875	6,655 5,365	- 1	6,623 5,843	6.505 5.815	200	2,520 6,520 5,520			1-				 T	1	
shearing stagi	GU - Par	Cell pressure o ₃ =		Back oressure Pb =	Eff. ceil pressure dy =	1	G. G. G.	-	3,560 3,560 0.	3.480	3.420	3.380	3.350	3330		3270	3.260	3 250	1	٠. '	320	3,210	١	3 20	1	3210	3.210	3,220	828	3230	8.271 3.230 2			-						
D I	Test type: O	.[_	T		Making V. v. 91.843 cm	-1-	Deviator Streets Ng IACIT	8	0000	•	-				4,581	1 -	2008	<u> </u>	5230						3.30	3	-				5,041						_			
PRESSION TES	ga/woodown o	1		and allowed	Specimen prior to shearing	Ť	V Dewall	24,507	£ 5	•	11.73	11,857	11.934		12,091	i	7	37.5	į	12 589	12.675		12,853	12.943	13.005	0.79 13.126 5.	13.319	13.416	13.515	13.615	5 77.61 77.0		+					-		
IIAXIAL COMI	TP20-2	364	3	A S I III WILLIAM	L	4,000	ğ	- Load	2 3	000	Ŀ	1	1	1		i	73.001 60.81		1. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.					L.	ı	84.00 69.97		1	1	83.60 69.54	83.00 69.14	1		+	1	+				
#	Test N°:	Project : DONG N		Sate: 0.100 m	1	Height Hes # 7,895 cm	Strain		۳l	8 5 6 5	1	8.	1	ı	i .	- :		150 5.70	500 6,33				ļ	۳.		900		.i			1						-			

TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet) DATE STARTED : 22-7-99

Depth: 20-2.5m Date: 22 July 1999

CU - Pw9

Test type : Load ring Nº : Cell pressure o₃ = Vertical stress o.

TRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)

OATE STARTED: 22-7-99 TRIAXIAL COMPRESSION TES		reading Orit. Diss. Test N°: 1 Project : DONG NAI 35.4 COMBINED HYDROPOWER	Tree type Cu Load ring constant	2 minutes (88.5)	Hate U.160 minuting		0.76 0 Area Are = 11.835 cm Area Are = 11.835 cm	. 3	Strain Strain			200 000 000 0	0.00	200 200 200	10. 0.20 mi	150 1.06 1.00	200 2.51 15.60 17.40 0.20	0.59 TLA	0.12 0.64 94.2	350, 4.39; 21.00, 16.09, 0.24
CU - PWP DATE STARTEG	VOLUME CHANGE	√r gauge Diff.		30.00 0.00	29.75 0.25 0.76	29.20 0.30 0.76	SE 0 32	57 0 57 02	47.0 1 02.0	29.30 6.30	29.40 0.60	29.30 0.70	29.15 0.85 0.09	29.00 1.00 0.65	28.30 1.10	28.35 4.15	28.80 1.20	20 TC 4.25 0.47	20 75 1.25	
TEST TYPE: G	JAIL KOOK		S S S S S S S S S S S S S S S S S S S	22/7 700 0	30.	-		\\ \-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	-	8	9	\$2	8	3	€	6	5			00.61
TEST Nº: TP4D-1 PROPERTY LONG RING Nº: PROJECT : DOMP NA 3 44 COMPINED HYDROPOWER, LOAD RING Nº:		TEST TYPE SIDE DRAINS		CELL PRESSURE 4.00	8	1 No 1/2m2	,	Pwp AFTER BUILD UP	DIFFERENCE	EPPECTIVE PRESSURE	11.00 85 min.	Lank tow m0.51 x 85 = 43.4		OATE OF DISPLACEMENT		Pir. P. 0.10x - 0.484	45.00		EEE 0480 = 2 200	

1	1	Ť	Hand N 7.965 CM	7.0	5	100	3	E			ا ا						
+	1		. [1 2		ļ <u>-</u>	- -	Deviator strees kg f/cm²	zees k	I/cm _z			Stresses kg f/cm²	0 1/cm		
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3 6 78	s.ſ	.1.	ı	5.65	23.40	47.82	ខ្ល	12,545	1,429		1,423	<u>8</u>	22	41.7		\$.	٦١,
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3	 '		1	8.18	26.30	20.15	0.10	12.688	1.563		53.	233	8 2 2	2	2:1		۱,
35.0	EIS.	1	1	8	26.80	20,53	0.75	12,976	1,582		1582	25	930	0.781	5	8	٠;٠
-2 cm²	[4]		ě	200	27.30	20.91	0.19	13.066	1,600		33.	2410	819	8	8	į.	, İ,
	Eli	┸-		ă	27.70	21.22	0.19	13.158	1,613		1.613		0.810	88: 60:	8	ē!	•••
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+				2 3	2 0	100	83.	13.733	1.580		1.590	2.410	0.820	6.795	. 78 	,615	
+	-	_		2	3		c	13 833	1.578	•	1.578	1	0.820	0.769	68.	8	
	- 1				28.50	2	.21	13.836	295		1.567			9783	587.	1.613	
, 	F		įį	8	5	2	0.17	14.83	¥.		1.544	٠.	0.830	27.72	1772	29	
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TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

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TEST N :	T D 4D-1 TEST N°: TOWNAN 344 COMBINED HYDRO POWRRLOAD RING N°	ABINED HY	DROPOWER	TEST TYPE :		CU. PWP	ð	DATE STARTED:		23 -7-99		
					7		VOLUME CHANGE	MANGE	Ş	PORE PRESSURE	۳	
			i	Y WALL	-	٤	90080	1	pubeer	Öff.	Š.	
TEST TYPE		SIDE DRAINS	Š		mnutes	}	Ę	, E	kg f/cm²	%0 t/cm	,	
3				1	١,	Ī	9	00.0	1.50	٩	٩	
CELL PRESSURE	JRE 2,00		7	٥			27.0	2,5	4 50	٥		*.
VERTICAL STRESS	2,00				ķ			5	5	٥	,	
PACK STRESS	0	to ficm			-	Ī	30,00		1		۲	
O C Street Plant D UP	40.0				~		30.50	8	7			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					•		30.40	9	240	7	{	1
DIFFERENCE					0		30.75	0.75	446	800	1	
EFFECTIVE PRESSURE	RESSURE	1			۶		30.40 0.90	0.90	44.2	100	4	
1, (i.m.	1,00 - 85				١		70.07	¥7.7	07	0.10	1	2
t. = 4 troo = 0.51 x	0.51 x 85 =	43.4			X			1	_	١-	7	.*
					æ		23 65	2		-	3	
200	PATE OF PICEN ACEMENT	7			.+9		29.20	- 1				
Y					*		28.95	2.05	3.26		35.6	
Eir Yes	"	2.483					26.90	2.20	9	9	12/2	
 100.1,4	484				s		2075	225	0.80	929	4	ii.
							,	2.0	0.36	4	9	
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Stress Memb. 01-03

Deviator strees-kg/cm²

900 9

,

Stresses kg/cm²

Volume V_{PE} = 93.235 cm² Eff. cell pressure cy. =

Specimen prior to shearing Load ring constant CR = 0.766 Kg/Drv

1216 : 0,180 nm/min

3

1eight Hz = 7.936 cm Area Az = 11,748 cm²

Strain

Depth: 2.0-2.5m Date: 23 July 1999

GU- P¥P

8 8:0

Vertical stress o, .. Back pressure Pb =

Cell pressure os -

Load ring Nº: Without side drains

Project : DONG NAI 35.4 COMBINED HYDROPOWER

1740-1

Test type;

TRIAXIAL COMPRESSION TEST (GU method shearing stage data sheel)

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6.7		9		8	8.0	0.22	11.748	0000	00	1		1,780	8 8	8	8.	8
8.7	1 2	15		13.00	36.8	8	28.2	0.842	2	0,842 2,552	'	710	0.421	2.01	5	8
900		३।इ		5	12.	E C	1.808	1,223	12	i	1	8	0.612	2 612	2,282	Ę
46.0	· .	3 5		3 8	1 2	è	11.974	167	-	1,471, 3,1	1	83.	67.36	2,73	3,365	1.903
,		<u> </u>	ġ S	3 8	1 8		200	168	19	53 3263	1	를	9280	582	2.436	2.026
1,4		3 5		3 8		3	12 130	2	4	1837 3.421	ľ	8	916.0	2915	2.506	2.152
26.0		3 8		3 8	; ;		12.210	1945			-	. 220	0.972	2.872	2 25	223
85,3		3 5		3 8	86.56	. 4	12.290	2057	2.0	2.057	3617 1.	380 	1.02	3.028	2 588	2318
		3 8		3 5	X	3	12.372	2136			-	· 8	1.068	3.068,	2.628,	2,369
		Ş	-	8	27.58	1	12.454	2214	22	Ι.		88	1.107	3.107	2.667	2
4 5 6 7 8 9		Ş	1	37.20	28.50	0,43	12,538	2.273	22	2.273 3.8	Ľ	1.570	1.136	3.136	2706	2,448
2,4.1		3 5		200	8	0.42	12.523	2,306				583	1,153	3.153	2.733	% %
7.936 cm		3 8	3 5	52 82	25,00	Va	12,709	2.327	23	2,327 3.9	3,917 1.	8	1.163	3,163	2.753	3
74.8 cm		Ş		-	1	9,0	12,796	2,341	2	ı	ŧ	1,600	1.170	3.170	2,770	200
		Ş			1	9	12,884	2,348	2.3		ŀ	610	1.174	3,174	2.784	\$ 5
5,40 3,40		\$ 5		30.00	30.56	0.38	12,974	2356	2	1	ı	1.620	1.178	3.178	2.708	% %
1 CH		3 8		1	31.56	823	13.065	2,416	2,4			1.620	1.206	3208	2.828	2
2 /2		3 5	ž (3 78	2	13,157	2.416	- -	2,416 4.0	4.036	1,620	1.203	3.208	2,828	2
		3 8			8	0.38	13.251	2.411	25		1	1,620	1.205	3.205	282	3
		8		8	20	0.38	13,346	2,399	2.3	2,399 4.0		1,620	1,200	3,200	2,820	2. 2.
1		٤	5	8	5 10	0.38	13,442	2.389	ន	r		1,620	1,194	3.194	7,87	2474
		٤		8	217	82.0	13,539	2,376	ន		1	1,620	1.188	3,188	2.808	197
+		3 8		8	â	220		2,348	23		3.978 1.	1,630	1.174	3.174	7,80	8
				5	31.70	0.37	1	2,314	23			83	1.157	3.157	2.787	2.420
		ξ,		8	3	38	13.84	2269	2	2.269 3.9		5,640	÷.	3 53	2.775	2384
		Ş		4070	31.38	033	1	2236	22		3.886 1.	1.650	1.118	3.118	2,765	2,355
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TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

TP4D-4

TP4D-4

TP4D-4

ONTESTARTED: 24-7-39

Depth: 2.0-2.5m Date: 24 July 1999

CU-P*P

Test type: Load ring Nº:

Test N° TP40-1
Project . DONG NAI 3&4 COMBINED HYDROPOWER

Test type

TRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)

TO 40-1	20407	e e	DRO PONTIR.	TEST TYPE LOAD RING		CU. PWP	ð	DATE STARTED :		24 -7 - 99		
PROJECT : COM	100				1		VOLUME CHANGE	HANGE	P.O.	PORE PRESSURE	ie.	
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TEST TYPE	WELL SIDE DRAINS	DRAINS	DATE	¥	- Hinutes	` }	E	ŧ	kg t/cm² kg f/cm²	kg f/cm²	*	
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TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

P 6 D-2 TEST TYPE: CU. PWP DATE STARTED: 24-7-1999	LOAD RING A	SIDE DRAINS DATE TIME I JE GRUSS ONT. reading Diff.	22/7 7/20 0 30.00 0.00	30" 23.70 0.30	kg t/cm²	2 260 040 074 0	22.55 0.45 6.3 6.91	9 250 250 250 250	40 min. 16 29,35 0,65 0,70 0,094	25 29.20 0.68 0.06	36 29.00 4.00 0.67 0.07	64. 22.30 1.20 0.64	28.70 1.30 0.53 0.23	3 226.55 1.35 0.38	5 22.00 2.00 2.00 2.20	8 28.55 1.45 0.12	min 21/7 19'00 12 22.50 1.50 0.10 0.00	- _	× 250 ×	á	Control of the contro	_	240 m317 no -240 m	77. 3.15.45					That, minute (fog scale)	- 1						0001	10 TIXE MINUTE (LOG Scale)	-1655-
TP60-2	PROJECT : DONON'N 3-4, CORBINED MYDROPOWER	PE MITTE SIDE DRAINS	5	т Т	0	91.01	S S S S S S S S S S S S S S S S S S S	POLICE STREET	- 5	20 - V	١.	INSURANCE OF THE PROPERTY OF T			9700		0,5%		2 44.1				¢ ,	AV	O. VAH.	0 3		2.0	18	**************************************	, NO	N 110	55510	09	833	1		

norm TP60-2	HYDROPOWER	TP6D 4.3 - 4.8m	GE (AT PAULINE)	No 80 mm Do 39 mm	-	1,734 1,784 1,784	41,00 41,00		39.80 38.80	1,284 1,299 1,316	1,00 2.00 4,00	10.05 10.00 9.50	1,744 2,683 4,605	0.872 1.342 2.302	1.872 3.342 6.302	0.16 0.33 0.63	1,712 3,012 5,672	2,744 4,663 8,605								— 				12 13 14 15 16		
TRIAXIAL COMPRESSION TEST TO (SUMMANA NA RECORT DATA SHEET) WHILLIAN NEW SALTRIKE TO THE STATE OF THE SHEET)	NG NA! 384 COMB!	Remouded to 0.95 MDD on wet branch 1999	SHEANING BATT OLD STRONG THE STRONG AND STRONG A SHEANING THE A SHEANING THE A SHEANING STROE (AT PAULINE)	5.0 to 3.		\$00 PT	W MOSTUME AND THE WASTUME	ONY OPENSITY 7.	188 3.00 Met October 18 Met October	20 10 10 10 10 10 10 10 10 10 10 10 10 10	S 1.0 LATENA SINESS S 120 Vacin	STRAIN C N	0 2 4 6 8 10 12 14 16 DEMATOR STREES 01-03.	20.60 (O - O) /2 / (O - O) /2	410 th 12bm² CENTER MONH CRICLE (O) - O) XI.	n and	2 0.4 (01-03)2		200	0 2 4 6 8 10 12 14 10 STAMIN C'S STAMIN C'S	2= 0.255 Cm= 0.250 Em C= 0.277 Em C=		ļ.	5a 2	(100)	.,	 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1	0 1 2 3 4 5 6 7 8 9 10 11 12 13 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	VE ATTACK	-19791

-929

TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

TEST N°:	TEST N°: PEST TYPE: PROBLET DONG NAI 344 CONSINE MYDRO POWER LOAD RING N°	Z Senes	PO POPER	TEST TYPE:		CU. PWP	ð	OATE STARTED :		20-7-05	1
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BACK STRESS	o	(S)					57 0 00 00	57 4	L_	0	
PAP AFTER BUILD UP	שני סטוני						1	200	7.43	200	
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	TRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)	Ō	٥					Stresses kg f/cm²	(co.co)/2 (co.co)/2/(co.co)/2	444	3 5	8	0.50	0.598	9990	21/2	2 2	3 5	988	3	0.854	0.864	0.865	0.868	0.872	998.0	1883 1883 1883 1883 1883 1883 1883 1883	58.	0.845	8	0.805	2 2 2				•	•	•	•	!	İ		•	1	
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	SION		Project : DONG NAI 3&4 COMBINED HYDROPOWER	E	K9/0v	Shearing	2 cm ²	<	-	Ē	\$ 1	8 3	202	12.120	12.198	12.278	12,359	12.440	12.23	12.607	2 7	12 866	12.955	13.044	13,135	13.228	13,322	13,417	13.513	13.611	13.710	13.81			T	- ; .		1							
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TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

TP6D-2

TEST TYPE: CU.PMP OATE STARTED: 19-7-99
PROJECT DOM NAIS ALCAHRIND MYD000WER LOAD RING N':

VOLUME CHANGE PORE PRESSURE	oauge Diff. reading Diff.	080	4	57.0		100 280	+	+	25 0 2.70 2.70 0.20		7.00	26.80 3.20 2.67 8.35	26.50 3.50 2.04 0.56	26.40 3.60 4.45	-	3.75 0.49	26.20 3.80 0.37 2.53		7	¥ \$	ક	627 17 10000 2		0,477.40 "3174.0" -2490 "3.174.0" (,477.40 "		1	Ţ							TIME, minute (Log scale)		8 2 8								
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ON TEST	A sween TRUC	PROJECT: DONG NAT 3&4 COMBINED HYDROPOWER TPM	BONEHOLE NY : DEPTH OF SAMPLE :	SPECIMEN PROPERTIES & SMEARING STAGE (AT PAULRG)	61,2 lp 36,1 B	SPECTACING	WET DENSITY Y.	WOSTUME	Ł		MOISTURE W	DRY DENSTY 74	LATERAL STRESS 03	V	DEVIATOR STRESS On O	SWEAR STRESS (O) 03)/2	CENTER MORM CINCLE (O1 - 03)/2		PERCENCE MON (0)-03/2		MAK TOTAL STRESS	NALISTRATIVE DESCRIPTION	OF SPECIMEN	AT FABURE		- - - - - - - - - - - - -							 	14,20,61	_					•			
TENAVIAL COMPRESSION TEST	(SUMANAY AND REPORT DATA SMEET) (THI NOHIÈM NEN BA TRUC (SA) CAO TONG HOP) (SA) CAO TONG HOP)	SON, DESCRIPTION: Residual and of basait: Brown sitty sandy day PROJECT	TYPE OF SAMPLE: Remouded to 0.95 M.D.D. on wet branch. 19-27, July 1999 DEPTH OF SAM				_		70		LIM	1020		NAMES .	ľ	0.8			2000					0 2 4 6 8 10 12 14 16 CONTROL	S S WANT	a. 0.282 Co. 0.298 W. C. 0.273 Ca.		tga= 0300 pa= 17-37 p = 29-28	24	9 × × × ×	÷	10-	101	\$5390							TESTED BY		-1716-

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TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

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21 July 1999 Depth: 4,0-4,5m Date: 21 July 1999

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Cell pressure c₃ = Verbcal stress c₁ =

CU.PwP

Load ring Nº : Test type:

Project : DONG NAI 3&4 COMBINED HYDROPOWER 1790-2

est N

Test type CU Rate: 0.240 mm/min

Height Hys = 7 966 cm

TRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)

وي (درس)/2 (درسم)/2 (درسم)/2 دراره

· Stress 'Memb. α₁-σ₃ Deviator streas kg f/cm²

Proof A

Volume Vig. = 94.315 cm² Eff. cell pressure ctr

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TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

Depth: 4.0-4.5m Date: 20 July 1999

Test type : CU - PwP Load ring N° :

Project : DONG NAI 3&4 COMBINED HYDROPOWER
Test type CU Load ning constant

7200-7

Sate: 0.240 mm/min CR = 0.766 Kg/Div

% 58 58

Vertical stress o. -

Volume Vrg = \$3.178 cm² Eff. cell pressure o₂ =

Specimen prior to shearing

Height Hee = 7,534 cm Area Ave = 11,744 cm²

TRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)

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) E	TEST Nº :	TP9 D-2 TEST WE TEST TO D-2 TEST THE TEST TO TEST TO TEST TO THE TEST TO TEST	HED HYD	D POWER.	TEST TYPE :		CU-PWP	ð	TE STARI	DATE STARTED ; 20-7-99	-7-99		
					1	TIME		VOLUME CHANGE	HANGE	ğ	PORE PRESSURE	ie.	
L	TEST TYPE	WITH SIDE DRAINS	DRAINS	OATE	TIME	-	5	pange	ž 8	reading to the	reading Oiff.	ğ ',	
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	BACK STRESS	,				,		24 50	0.50	4.50	9	9	
	Pwp AFTER BUILD UP	מונס מג				Ţ.		57 50	800	87.1	20.0	-	
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_	EPPECTIVE PRESSURE	RESSURE				å		7			8	4.6	
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	tra 8 ton # 0.51 x	<u>59</u>	33.2			22		2220	g			1	
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TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

Depth: 4,0-4.5m Date: 19 July 1999

B. P.

Load ring Nº: Without side drains Test type:

Project : DONG NAI 3&4 COMBINED HYDROPOWER
Test type : CU Load nng constant

CR = 0.766 Kg/Ow

late 0.240 mm/min 3

Test type:

Volume V_{Ps} = 92.050 cm² [Eff. cell pressure $\sigma_{\mathcal{P}}$ =

Area Ass = 11,549 cm²

Height H_{rg} = 7,902 cm Strain Loan

Vertical stress m. Cell pressure on ..

TRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)

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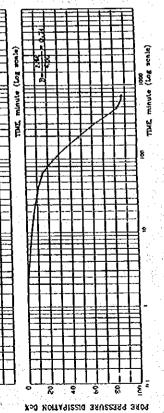
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3,50 × 100 3,64

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AOFINE CHYNCE VA x cm,

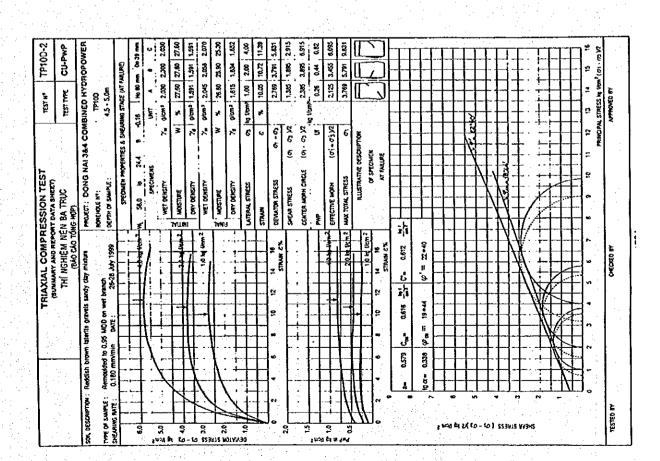


TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet)

. N . S	TEST Nº : PROJECT : DON	TEST N°: TP40D-Z TEST TYPE: PROJECT: DONG NÁ SAL COMBINED HYDROPOWER LOAD RING N°:	Shep Hyo	Poposit R	TEST TYPE :		CU. PWP	8	DATE STARTED:	ë	28-7-99	83
					300	TIME		VOLUME CHANGE	HANGE	Ş	PORE PRESSURE	Ę,
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	TEST TYPE CO	WITHOUT STORE DRAINS	DRAINS			minutes	>	u.	ŧ	kg (/cm²	kg t/cm² kg t/cm²	*
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٠.	-	Para a second	5			\$.		27.80	8			4.4
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1000 TIME, minute (Log stale)



TRIAXIAL COMPRESSION TEST (Consolidation stage data sheet) DATE STARTED : 27-7-99

CU. PWP DATE STARTED	CLOCK TIME VOLUME CHANGE PORE PRESSU			-1-	\ \ !	20,00 0,00 0,00		3025 075 1.38 0.04	257 550	132	047	420 428	4	9 6	28.55 7.45 0.46	28.50 02.50 02.82	28,45 2,55 (4.2)	244
TEST N°: TP 40 D-2 TEST N°: PROJECT 10046 NÅ 344 CMENION MYDRO POMERIOND RING N°:		TEST TYPE - WATE SIDE ORAINS DA		CFL PRESSURE 2,00	8,2,8	BACK STRESS O kg f/cm'	PWE APTER BUILD UP	DIFFERENCE	EFFECTIVE PRESSURE	6/5% 00 × 150 = 45/9		PATE OF DISPLACEMENT	E.c.H. 79.29 A.773	100.4,8 -0.10 -0.10		V 01 •	select v = 0,100 min	
		5.0m	uy 1999	kg (/cm²,	to f/cm²	kg f/cm²	kg f/cm²		or) / פיוטי		000 1 0060	1.313, 2.164	62.7.2 25.1.2		1 662 3.554		1795 4.067	1 856 4 229
ige data sheet		Depth : 4.5-5.0m	Date: 28 July 1999	1:00	9:	٥	1,00	Stresses kg f/cm²	פא (פויפי)ע (פייפי)ע (פייפי)ע פיופא		0001	-:				1.017 2.017	1 085 2.085	3146 . 344K
d shearing sta	ı	GW- PwP		Cell pressure σ_2 =	Vertical stress o ₁ =	Back pressure Pb =	Eff. cell pressure oy =		E)		006:0 006:0 00	1.796	2.124	_ :	j	M 2.754 0.720	2.88(
rest (cu metho			S Load ring Nº:	Without side drains			Volume V _{Pe} = 94.079 cm ³	Deviator strees kg f/cm²	Stress Memb. 0+03	COVIT.	0.000	996'0 996'0	1,344	1.653 1.653	1.864 1.96	2.004	2.170 2.170	
TRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)		TP100-2	ONG NAI 3&4 COMBINED HYDROPOWER	Load ning constant	CR = 0.766 Kp.Ow	Specimen prior to shearing	Area A 11,819 cm*	╁╴		Ko :ko (/em² cm² i	0.00 0.10 11.819	11.49 0.17 11.894	16.09 0.22 11.969	92	60 027 12.124	820	66 0.29 12,282	:
TRIAXIAL C		TP10E	NG NAI 384 COA	8	30 mm/min CR	8	# 7.960 cm Are	1 %	Div. Load		8	15.00	21.80	1.86 26.001 19.92	23.50 22.60	4 32.40 24.82		

tate : 0.180 mm/min. 8

est type :

Height Hes = 7,060 cm Area Am = 11,819 cm

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Project : DONG NAI 3&4 COMBINED HYDROPOWER

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PORE PRESSURE DISSIPATION DOX

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TRIAXIAL C	

	TEST Nº : PROJECT : SON	TEST NO. TP 40 D-2 TEST TYPE: PAGGET: CONGNA! 344 COMBINED HYDROPOWER LOAD RING Nº.	5-00 ENED HT	NED POWER	TEST TYPE : LOAD RING N		CU. PWP	۵	DATE STARTED :	1.5	26-7-99	
					XX O	TIME	Γ	VOLUME CHANGE	HANGE	POR	PORE PRESSURE	RE
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Stress Memb. 01-03 Or.

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Drv. Load 9

Strain

0.01 E % 0.01.

1.26

Stresses kovem²

2,00

Height Hr. w 7,929 cm Avea Av. = 11,727 cm² Volume V_{Pc} = 92,983 cm² Eff. cell pressure cy =

Specimen prior to shearing

Deviator strees lig/cm²

Depth : - 4,5-5.0m Date : - 27 July 1999

CU - PwP

Test type :

Load ring Nº: Without side drains

Project : DONG NAI 38.4 COMBINED HYDROPOWER Test type : CU Load ring constant Pate : 0.180 mm/min CR - 0.765 Kp.0w

2.00 2,88

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Cell pressure os =

Back pressure Pb »

TRIAXIAL COMPRESSION TEST (CU method shearing stage data sheet)

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DONG NAI 384 COMBINEO HYDROPOWER
Socimen prior to shearing
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