

Attachment A4
Laboratory Test

DATA 4.1

LABORATORY TEST OF EARTH CORE MATERIAL

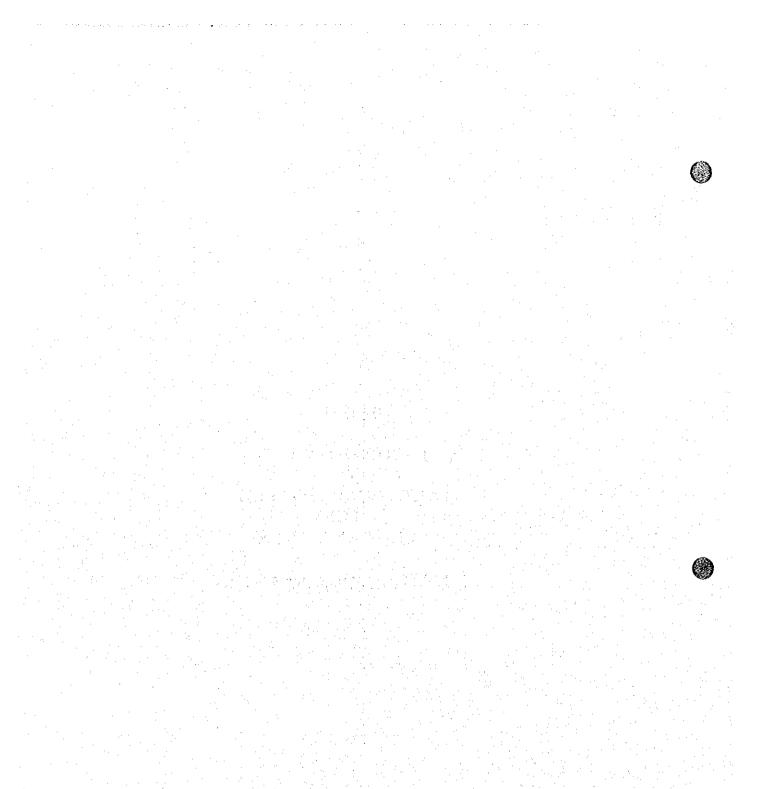
DATA 4.1.1

LABORATORY TEST
OF
EARTH CORE MATERIAL
FOR
DONG NAI No.3 DAM

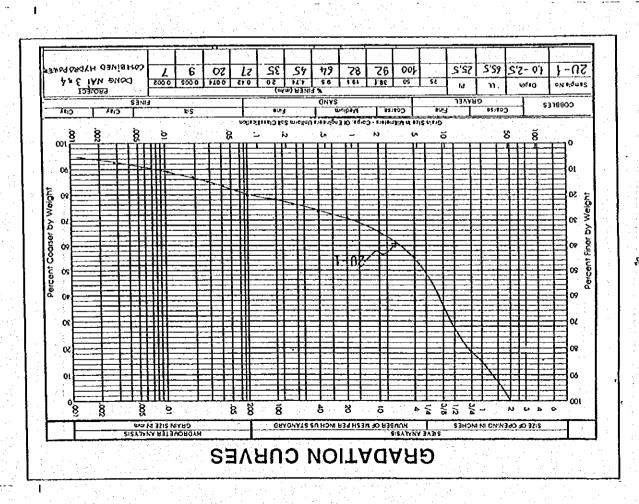
DATA 4.1.1

LABORATORY TEST
OF
EARTH CORE MATERIAL
FOR
DONG NAI No.3 DAM

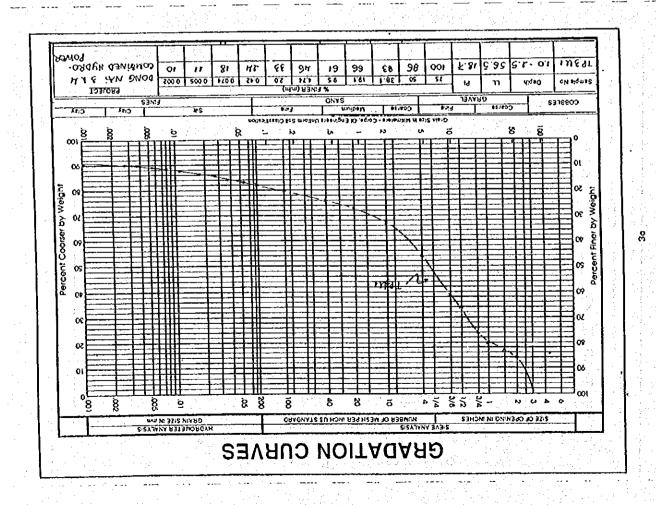
GRAIN SIZE ANALYSIS



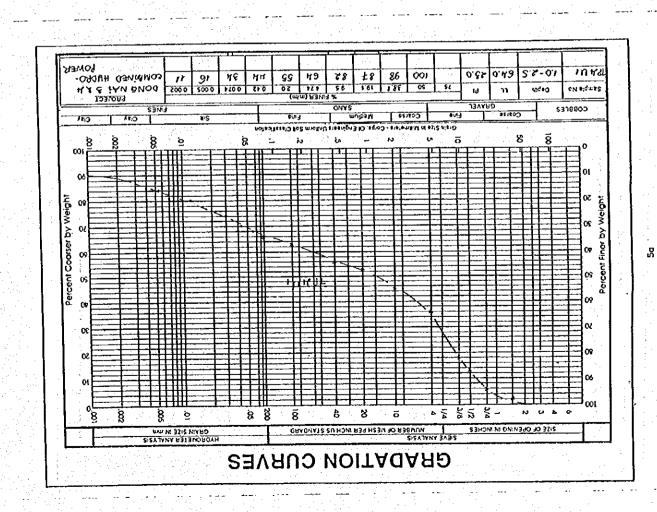




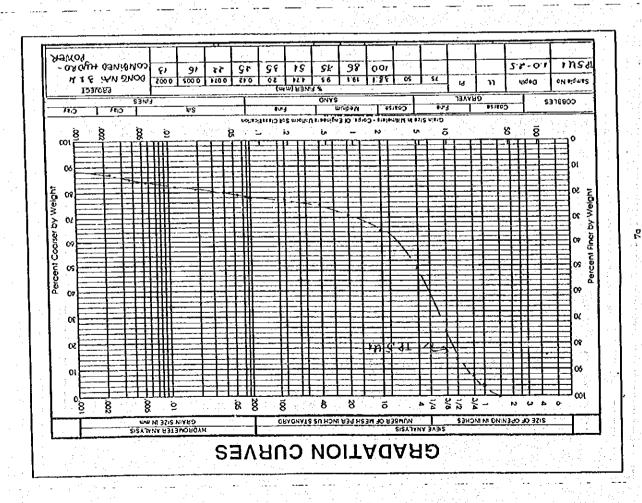
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				ő	AIN SY	ZE AN	GRAIN SIZE ANALYSIS (METHOD ASTM D422)	SI					
Chan trioh (Project)		NO SNO	38.4	COMBIL	DONG NAI 354 COMBINED HYDROPOWER	ROPOW	#	Mลับ sô	Måu so (Test N*) :	:	TP 2VI	_	
We ta may (Description)							٠.	Tỳ trọng	Ty trong (Sp. Grawity)	uty)		152H	
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	Photo con	١						Phân tíc	Phân tích tỷ trong kế	, ke		-	
	(Sieve analysis)	ysis)						(Hydron	(Hydrometer analysis)	Sis.			
Tổng TL đất KHÔ TN	N. Q		3500 g		ig ig	no trich	TL dất khô trích phán tích TT kế < Nº 10	11 Kg.	N° 10			U.	
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TL hat the tren sang N° 4	Sang N° 4	-	1932		71. 08t x	no trich	TL dất khô trích phản tích TT kế < Nº 200 Nation of dre soil particul for hydrometer < Nº	7 K6 A	TL dất khô trích phản lich TT kế < N° 200 NAT of dex soil corriest for hydrometer < N° 2001			•	
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funk short	5	(% retained)	, G	2	W of d	o soil to	ial for	drometer	Wry of dry soil total for hydrometer analysis)		:		
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N) open)	retained) o			passing	(Dispersing	Sing co.	correction)			(Menicus	correction)	ŝ	
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- 3/4" 19.1	ŝ		18.3	<u>ئ</u>		٤١	ε	æ	R.R. +C.	(mm)	ž		.
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		Γ				+		&	×		٠		
*N*200 0.07	14.9	29.9	79.6	20.4	Partial per, Fine	er, Fine	4	호	æŧ	-	or hydi	for hydrometer 152H	152H
Pan								š	•				
Total Wt					Total per Finer	Finer	ď.	P, P, X	≱] ×				
יי פ									*				
Note: Ws = 1	Ws = Total overdry Wt of sample used comfined analysis in grams	Wiels	ample	es co	mlined ar	Talysis II	פוויציט נ						
) - 3M	Wc = Overdry Wt of soil used for hydrometer analysis in grams W. = Overdry Wt of sample on N° 10 or N° 200 sieve	Solice Solice	2	hydrome 10 or h	ster analy of 200 sig	sis in or	sms.						
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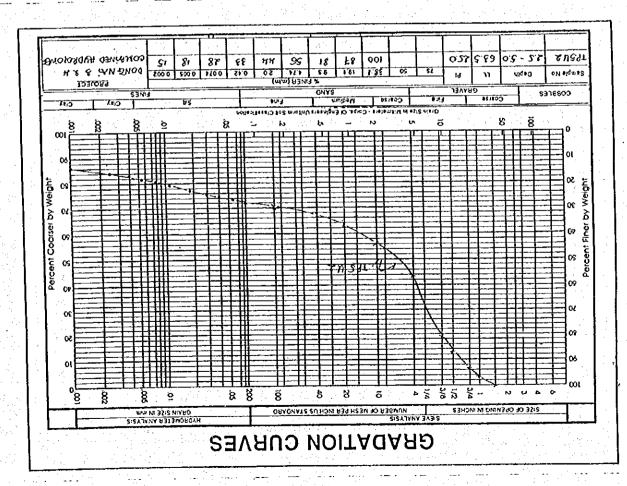
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(CH THÀNH PH GRAIN SIZE ANALYSIS (METHOD ASTM D42)	<u>«</u>	Phan sich tỷ trọy (Hydrometer ana) TL đấi khô trich phân tich TT kể < N^* 10 (Wt of dry soil partical for hydrometer < N^* TL đấi khô trich phân tích TT kể < N^0 200 (Wt of dry soil partical for hydrometer < N^*	II, cât chôtcan phan cho phan uch is ke (Wr of dry soit total for hydrometer analys) SG HC chất phân tán Ce = 3.0 (Dispersing correction)	S6 MC nhiệt 60 Temp.	ξ ξ. ξ.	2 E E E E E E		grams
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Z.	or well	3200		14.0	39.0	2 2 2 2	0 0 0	ed for
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	Cong itinh (Project) DONG NAI 354 COMBI Ma is mau (Description); TL dat kno-det phân tich (Wi of dry or wet soil); Do âm dát uet phân tich thânh phân hat (Moisture content of soil for grain size);	Sieve N N N N N N N N N N N N N N N N N N	The samp	0 0 44R 544	1088	2144 2336 2536 864.0	13.0	Ws = Total overcity Wt. of sample used comfined analysis in grams We = Overdry Wt of soil used for hydrometer analysis in grams W. = Overdry Wt of sample on N° 10 or N° 200 sieve Tested Computed HEN
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	Công trinh (Project) Mô 13- mấu (Descript TL cát khô-ười phân Độ ẩm đấi ượi phân (Moisture content of	I'han I (Seeve Tong TL dât xhb T'N (Tonal Wt sample) TL hat tho trên sang N ^e (Wt of coarse soil retain	(Sleve size)		- 18 8 S	N. 3 N. 4 N. 4 N. 76 N. 76 Pan	-1 -1 -1 - -1	Note



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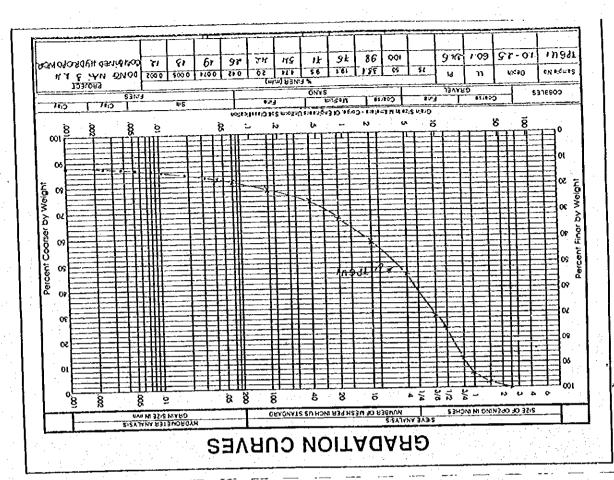
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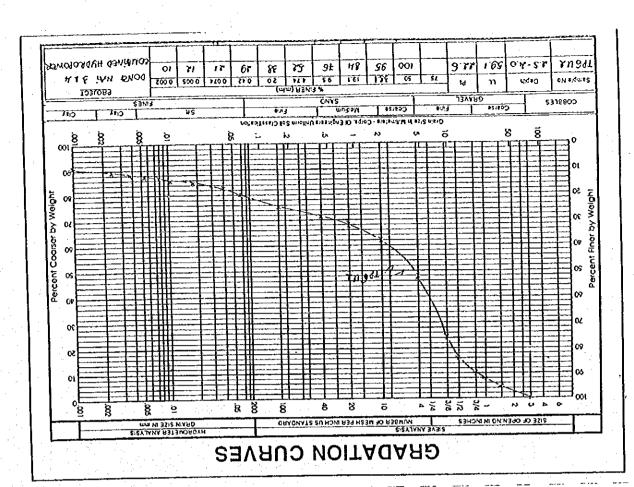
PHÂN TÍCH THÀNH PHẦN HẠT	grain size analysis	(METHOD ASTM D422)	DONG NAI 364 COMBINED HYDROPOWER MÃU SÓ (Test N°): TP SUZ		2000 g Ty trong k6 (Hydrometer N"):	Số hiệu chính mặt cong Gm 1.0	(Menicus correction)	All manes to rost about	(Signatural Signatural)	The day was trich obtain 1(ch 77 kg < N" 10	(6.0)	(Wt of ory son particle for hydronised 2 to 20)	2003	7-		_	(Dispersing correction)	The Inhiet So HC So doc HC so Dubno	do maiét do TTK	Time Temp. Temp. Hydro.	min corr, reading reading diameter	"C m 8" R=R'+C, D (mm) R, P+" P	0.5 28 1.8 36.7 37.7 0.056 36.5 73.0	35.0 0.040 33.8 57.6	2 28 1.8 32.6 33.6 0.030	28 1.8 31.3 32.3 0.018 31.1 62.2	15 28 1.8 28.6 29.6 0.012 26.4 56.0	30 28 1.8 25.9 20.9 0.0070 25.1 5.1	60 28 1,8 24,5 25,5 0,0055 24,5 25,5	120 28 1.0 23.4 24.4 2002 200	200 200 200 200 200 200 200 200 200 200	Seconds calculation	T	× 1.59	Partial per, Fine Pp. 100 x	T	Total per, Finer Pr. Pr. X W W.		Ws = Total overdry Wt of sample used comfined analysis in grams	Wc = Overdry Wt of soil used for hydrometer analysis in grams	W, a Overdry WI of sample on N" 10 or N" 200 sleve	Computed	***************************************
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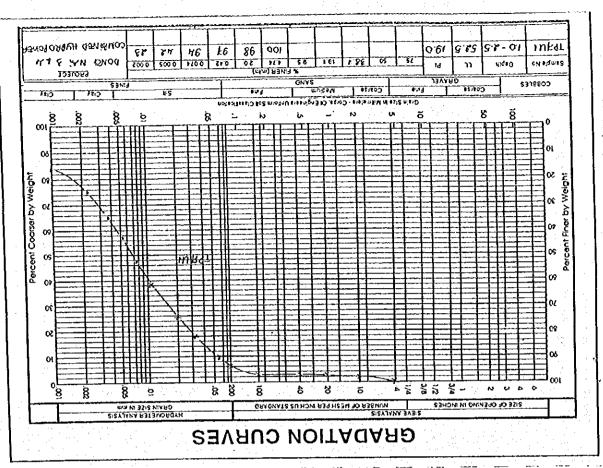
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			Ę	TL da't kho-udt phan tich (Wt of dry or wet soil)	Ob aim dat ucht phan tich thanh phan hat	2 100	Thân tích sùng	(Sieve analysis)	::- ::- 2	TL hat the tren sang Nº 4	활		Tren samp	0		٥	OS	1,50	ÇÇ.	ξi	1,50		1450		1675	825	10.6			2	21.2				Ws = Total overdry Wt of sample used commed analysis in grams	We = Overdry Wt of soil used for inydrometer analysis in granns W. = Overdry Wt of sample on N° 10 or N° 200 sieve			
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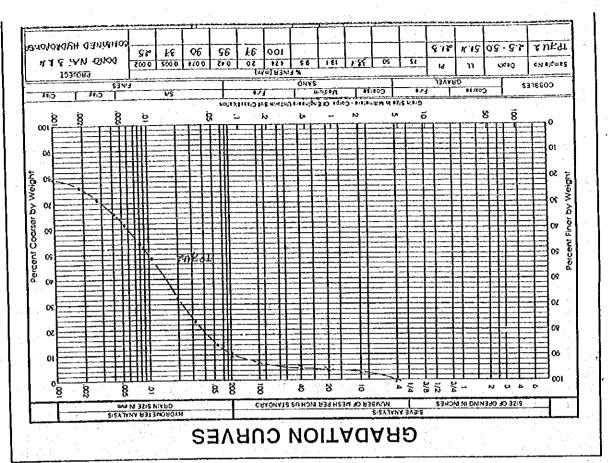
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			Ž.	Mé tá máu (Description) :	TL 651 khō-uót phán tích (Wi of dry or wet 504) : Sa km att san shán tích thánh bhán hat	(Moisture content of sois for grain size)	Phân tích wing	(Sieve analysis)	Z		Tt hat the tren-sang IN" 4	(W) of coarse soil retained N 4)	trèn sano		relained) o		٥٠	ř	ĝ,	Ş		8 2 2		1550		202	8 2			10.9		17.2			Wr Total exercise Wt of sample used comfined analysis in grams	We - Overdry Wt of soil used for hydrometer analysis in grams	W Overdry Wt of sample on Nº 10 or Nº 200 sieve		. :	
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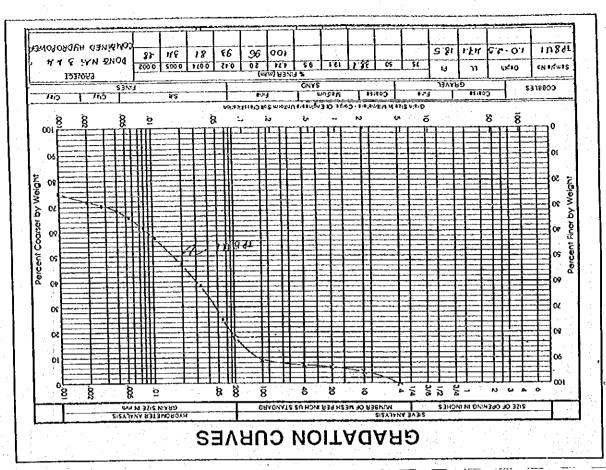
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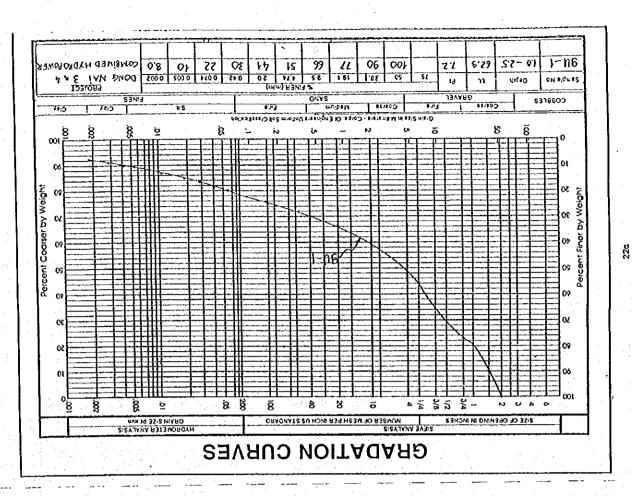


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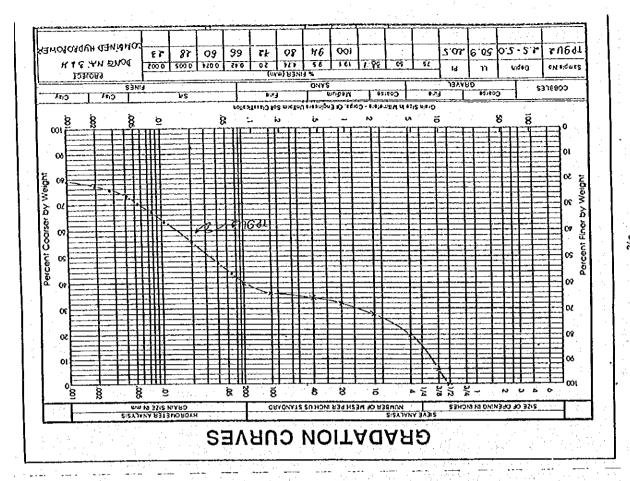


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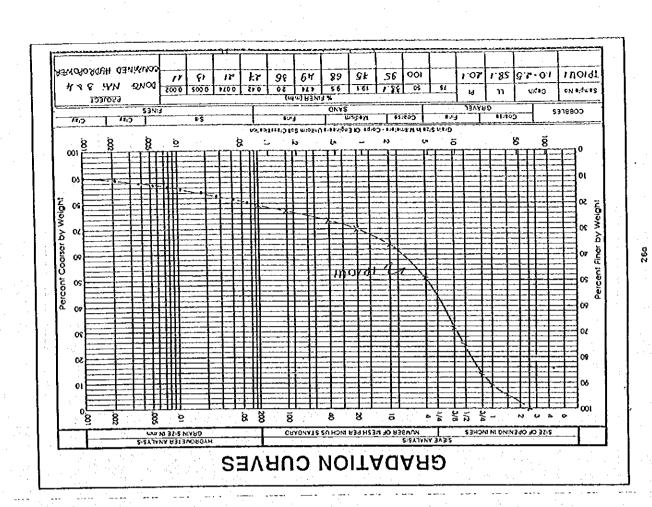
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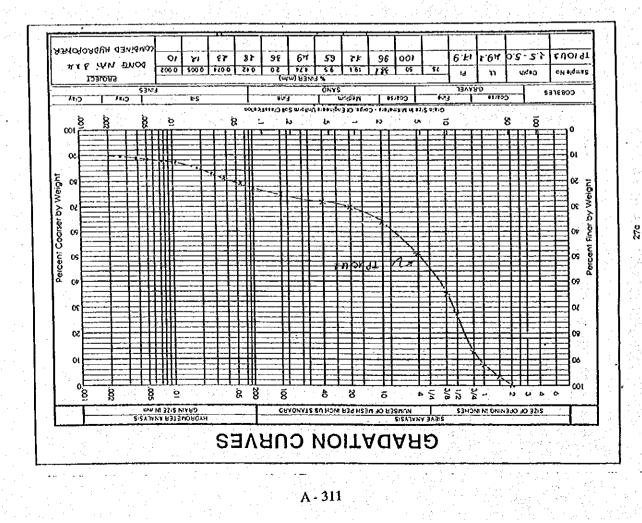


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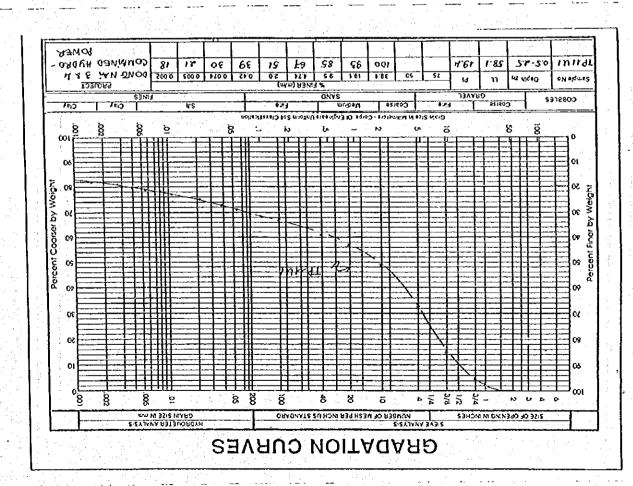


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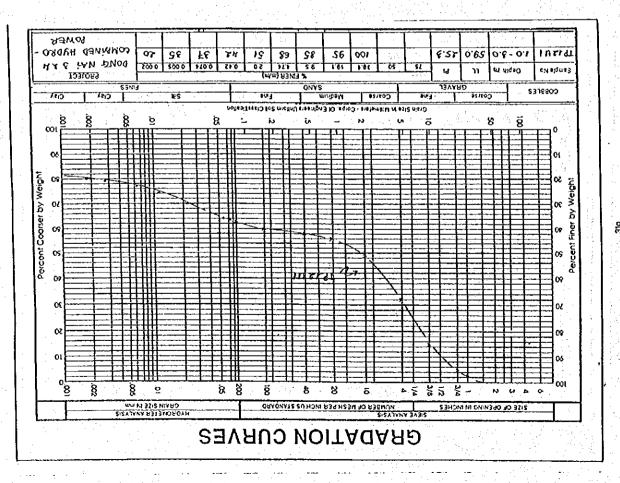


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<u> </u>			ί (S NI V	ZEA	GRAIN SIZE ANALYSIS	S	•	-			
·				٠.	,	MITTIC	TSA CI	(MICTHOD ASTM D422)		:				
Chan trian (Project)	6	ښ ر ۱) .	NONO	38	DONG NA! 3&4 COMBINED HYDROPOWER	NEO HY(PROPOW		Māu so	Māu so (Test Nº) :	4.	TP 10UZ	ŭ	
	9	Mo ta mau (Description) :			 ! :				Ty trong	Ty trong (Sp. Gravity)	(A)		152H	
11. 05(3)	tho-off	Tt. dat kno-uct phan lich (Wt of dry or wet soil) :	W of dry	\$ ·	et soil) :		3000		Ty trong	Ty trong ke (Hydromete) SK bidii chich msf roon	Ty trong ke (Hydrometer N.) :: SK hišt: chich mst roon Cri	ج ج	10	
Do Sm. (Moistur	SStudt. e conte	Dộ ẩm cất ưới phân tích thành phân hai (Moisture content of soil for prain size) :	hanh pha r gcain s	, (2 2 2 2			• • •		(Menicus	(Menicus correction)	5	,	:	
		Phan tích sáng	50.05						Phân tíc	Phán tích tỷ trọng kể	, y			
\(\frac{1}{2}\)	·	(Sieve an	analysis)		-				(Hydron	(Hydrometer analysis)	\$. [S]			T
Tổng TL đất khô TN	ASI KA	ł		3000	٥	TL 65()	chô trích	Γ_L dát khô trich phân tích Tĩ kố < N° 10	ıı kç				•	
(Total Wt sample)	1 samp	ie)				(W1 of C	ry soil p	(W) of dry soil partical for hydrometer	нудгот	ter < N° 10)	ē	١		T
Ti hat	ho trèn	TL hat the tren sang Nº 4	9	1530 g	5	דר מאני. ועיו מי	cho trich Iv soil p	TL dat kho trich phan tich til ke < N° 200 twi of dry soil partical for hydrometer < N°	TI Ke e hydrome	₹ ₹	200)	_	Da	
Carrier of Control		i i	% trèn sano	Sáno	ž,	7, 0,51	chotoán	I. dát khótoán phán cho phán tích TT ká	hån tic	\$ E		80		
Carry start/	2007 (100)	1000 5000	(% retained)	Ded.	2300	W. 0	50 50 E	otal for my	Irometer	(Wt of dry soil total for hydrometer analysis)				
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		2001			L	-	8	87	25.2	26.2	0.018	25.0	δ. 0	5
Ş.	20	1920		8.0	36.0	2	ĸ	1.8	21.8	22.9	0.013	21.7	633	ខ
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	* X	We = Overdry Wt of soil used for hydrometer analysis in grams	of soil u	Sed 10	morbytrom 10 or	eter anal Nº 200 s	ysis in q ieve	smer						
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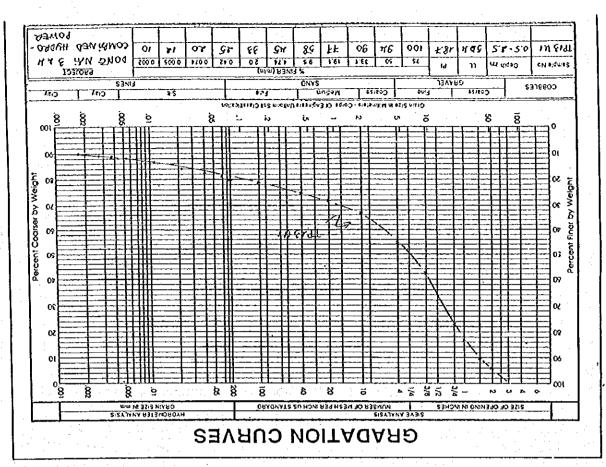


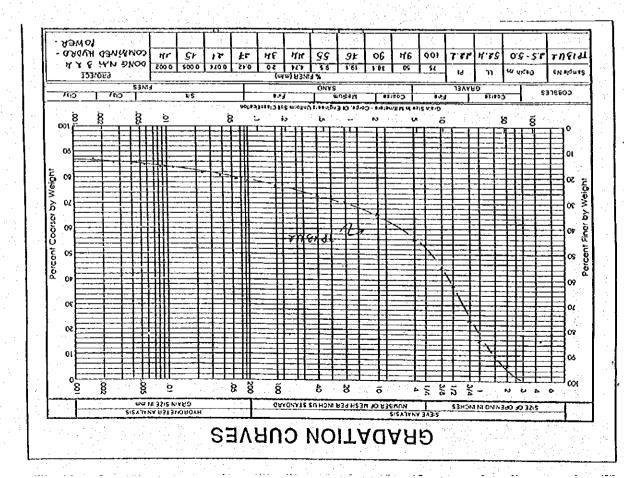
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Mô tả m	iẫu (Det	Mó tả mẫu (Description) :		A					Ty trong	Ty trong (Sp. Gravity) : Th trong of (Hadometer Nº) :	יונא) השפניה אינ		r C	
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00 gu	ast vot	Do am dất ưới phân tích thành phân hại	ianh phá	er .						So meo conso more co Meniore exception)		<u>.</u>	?	
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		Phân tích sảng) Sing						Phân tíc	Phân tích tỷ trọng kể	ž Ž			
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ة ج	Series S	(Wt of coarse soil retained N 4)	N 4			(Wt of c	ny soil p	(Wt of dry soil partical for hydrometer < No	hydrom	eter < N°	200	1		T
ន័	CO SANO	4	% trên sang	S S	% lot	7. dat 1	chôtoán _I	Ti dất khôtoán phán cho phân tích TT kố	phan tic	`æ -		ŝ	0	
(Sieve	(Sieve size)	trên sang	(% retained)	ined)	200	(Wt of C	ly soil	otal for hy	cromete	(Wt of dry soil total for hydrometer analysis)			-	T.
(Sieve	(Sieve	š	Partial	Total	*	35 35 35	So HC chat phân lân	an tan	ຜ້	3.0	So HC mat cong C.	8		
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TAH NÎ HO THÂNH ĐHẨN HẠT	GRAIN SIZE ANALYSIS (METHOD ASTM D623)	TP 130	Ty trong (Sp. Gravity) : 152H soil) : 3000 g Ty trong k6 (Hydrometer N°) ;		(Mankus correction)	ITHAN LICH LY LYONG KE	(Hydrometer analysis)	Now of dry soil partical for hydrometer < N° 10)		1,	% lot TL dat kholodin phan cho phan tich TT ke 50 g	hydrometer analysis)		(Dispersing carrection) (Menicus correction	Số đọc HC số Đường	do nhiệt độ TIK đọc kính hạt B-Cd % Im	Time Temp. Temp. Hydro. Corr.	min corr. reading reading	0.060 33.9 67.9	1 26 1.3 32.8 33.8 0,041 32.1 64.3	26 1.3 29.3 30.3 0.023	5 26 1.3 25.7 26.7 0.013 25.0 50.0	1.3 23.9 24.9 0,0085 23.2 45.4	30 26 1.3 22.1 23.1 0.0057 21.4 42.9	28.0 60 26 1,3 21.2 22.2 0,004 20.5 41.1 11.5	7.5 1.3 18.6 19.6 0.0019 17.9 35.7	1440	Formula calculation:	چا		20,0 Partial per. Fine Pp. 100 x R, for hydrometer 152H	* .	Total per, Finer 71 - 77 X War W		Ws = Total overdry Wt of sample used commed analysis in grams Ws = Otal overdry Wt of soil used for hydrometer analysis in grams	W, . Overdry Wt of sample on N° 10 or N° 200 sieve	Computed	HOIB	- 00
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	d 4	DONG	50 50	and des	rgrain	guás.	alysis)	S		\$	% trên sang	(% retained)	Partial			·										72.05		L	25.0		28.6				ny Witer Indisoil	of Sam			١
		300	÷ 5	to day known prise that the bash both hat	(Moisture content of soil for grain-size) :	Phân tích sàng	(Sieve analysis)	2	To hat the tree chee Me A	(W) of coarse soil retained N° 4)	1	trên sang		retained) g	0	180	38	510	2	282	1650		2010		2160		3		12.50		14.29				otal overd	verdry Wt			
		Công trình (Project)	Mo tá mãu (Description)		content			Tong TL dat kho TN	and and	Darse sol	۽			oben)	76.2	50.8	38,1	23.	191	70.8	32 P	۽	20	1.19	9 29	5	3 8	[20 0		0.13	0.07	Pan	Total Wt	0	× × ×	. 6 . 3	Tested	•	Š
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Art sample 100 or of the samp 100 or of the sam	Mo ta mau (Des	scription)		i	:- I	. }			Ty trong	Ty trong (Sp. Gravity)	, (á)		152H	
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Cáfeve analyses Cáfeve anal		Phân tíc	Sping.						Phán tíc	Phân tích tỷ trọng kế	n ke			
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Ann TL % then soing % lots and TL % then soing % lots as soil triained W % retained) and (%	71. hat she tree	sand Nº 4		8		퓽	cro trich	phán tích	T Ke	N 200				
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al Wt I ds Ws = Total overdry Wt of sample used comfined analysis in gra Ws = Overdry Wt of soil used for hydrometer analysis in grams W, = Overdry Wt of sample on N° 10 or N° 200 sieve Tested Computed	70.0 0.07	13.79	27.6	79.0	21.0	Partial p	er. Fine	ď		ď	er 2	ig S	for hydrometer 152H	152H
al Wt Ws = Total overdry Wt of sample used comfined analysis in gra Wc = Overdry Wt of soli used for hydrometer analysis in grams W, = Overdry Wt of sample on N° 10 or N° 200 sieve Tested Computed	Pan								₹		÷			
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