

6 – 4 River Bed Materials Investigation and River Cross Section Toposurvey results

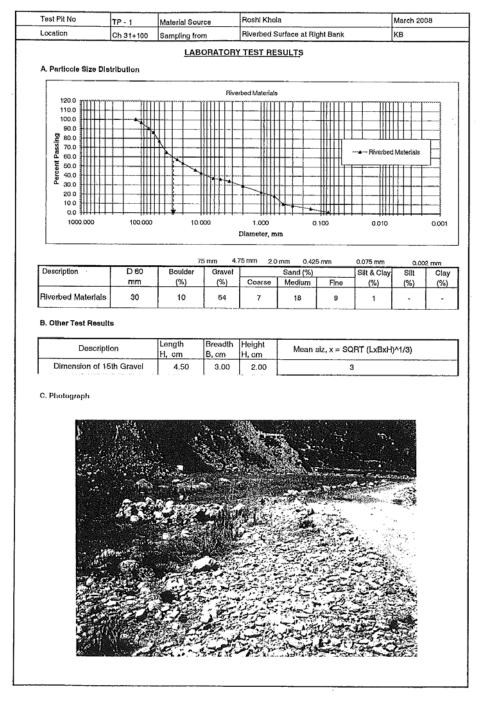
1) River Bed Materials Investigation

The results of investigation are shown from page A6-4-1to A6-4-12.

	March 2008 KB	Gravel	Mean size, x = SORT(IU-BKH)^1/3)	6												
	Date: Legged By:	Dimension of 15th Gravel	Height H. cm	2												
=		Dimen	Breadth B. cm	en												
Section	×0.50 m		Length	4.5												
GEOCE Consultants (P) Ltd. TEST PIT LOG OF GRID SAMPLING Hydrological Study For Basic Design Study on The Project For Construction of Sindhull Road Construction III	Geound Elevation: <u>1</u> Coordinates: N. 3036711.030_and E. 383277.542 Aprox. Dimension of TP: 1.00 x 1.00 x 0.60 m	CLASSIFICATION AND DESCRIPTION OF MATERIAL	(Typical name, calous, in wet condition, odour, if any dognee of plasticity, grain size range and description, moletrue conditions, degree of compactness and other pertinent information)	A ba off mon	V to 30 cm, Sandy GRAVEL, greyish, medium grained sand, micaceous, little non plastic	fines, sub rounded and sub angular Boulder, hard and strong					30 to 60 cm, Sandy GRAVEL, grey/ish, medium grained sand, micaceous, little non plastic	fines, sub rounded and sub angular Boulder, hand and strong, maximum size of boulder traction of 14 x 12 x 8 cm				
ical Study F	d Surface	Type and	Depth of Sample Taken								Bulk for GSA					
Hydrolog	a Riverbe		Depth (m)	5	970	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	95.0	0.60
	Sh 31+100	cation	Graphie		(\bigcirc			3	* 4	(0		0	0	
	Chainage: <u>Ch 31+100</u> Locator: Roshi Khala, Riverbed Surface	Classification	Group	9	5						В					

Test Pit Log of Grid Sampling at Location TP-1

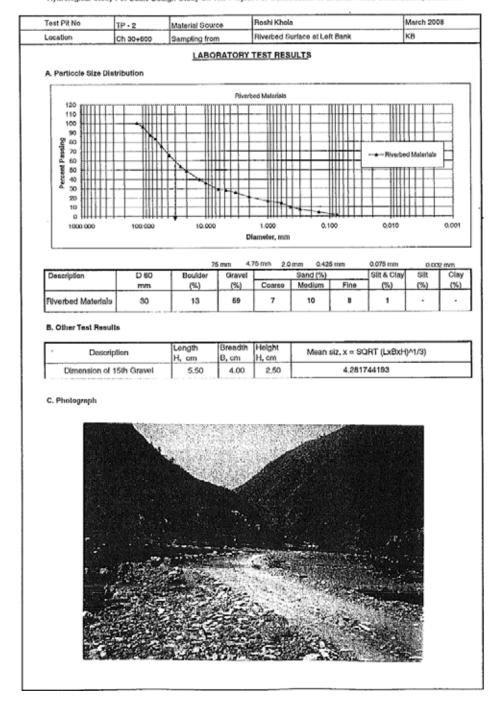
Hydrological Study For Basic Design Study on The Project For Construction of Sindhuli Road Construction, Section III



	March 2008 KB	-	Mean size, x =	4.281744193											
	9	Dimension of 15th Gravel	Height Mea	2.5 4.											_
	Date:	mension	ž:	+											_
≡		ä	å,	£ 4											
Section	0 × 0 60 m		Length	5,5											
s (P) Ltd. ID SAMPLING nstruction of Sindhuli Road Construction,	Test Pit Nat: <u>2</u> Aprox. Dimonsion of TP: <u>0.91 x 0.90 x 0.60 m</u>	CHIPTION OF MATERIAL	gyreb of plassicity, grain size range and is and other pertinent information)		and, micaceous, little non plastic hard and strong					and, micaceous, little non plastic	hard and strong, maximum size of				
GEOCE Consultants (P) Ltd. TEST PIT LOG OF GRID SAMPLING Hydrological Study For Basic Design Study on The Project For Construction of Study For Basic Design Study on The Project For Construction of Study For Basic Design Study on The Project For Construction of Study For Basic Design Study on The Project For Construction of Study For Basic Design Study on The Project For Construction of Study For Basic Design Study on The Project For Construction of Study For Basic Design Study For Basic Basic Design Study For Basic Basi	Ground Elevation: <u>\$36.653 m</u> Coordinates: N.3038752,400 and E.383607,057	CLASSIFICATION AND DESCRIPTION OF MATERIAL	(Typical name, colour, in wet condition, odour, il any degree of pissicity, grain size range and description, moliture conditions, degree of compactness and other pertinent information)	D by GD ann	Sandy With grayish, medium grained sand, micaceous, little non plastic fines, sub rounded and sub angular Boulder, hard and strong		-			30 to 60 cm, Sandy GRAVEL, grayish, medium grained sand, micaceous, little non plastic	fines, sub rounded and sub angular Boulder, hard and strong, maximum size of boulder fraction of 17 x 14 x 4 cm				
cal Study F	Surface	Type and	Depth of Sample Taken							Bulk for GSA					
Hydralogi	Chainage: Ch. 30-600 Location: Roshi Khola, Riverbed Surface		(m)	400	0.10	0.15	0.20	0.25	0:30	0.35	0.40	0.45	09:00	0.55	-
-	h 30+600 shi Khola	ation	Sraphic	0					0		77	6	Ů		0
	Chainage: <u>Ch 30+600</u> Location: <u>Roshi Kholi</u>	Classification	Group Symbol	d.S					6	3			*****	**********	

Test Pit Log of Grid Sampling at Location TP-2 $\,$

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TEST PIT LOG OF GRID SAMPLING

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Ground Elevation: <u>533,845 m</u> Coordinates: N 3036875,520 and E 383310,562

Location: Boshi Khela, Riverbed Surface

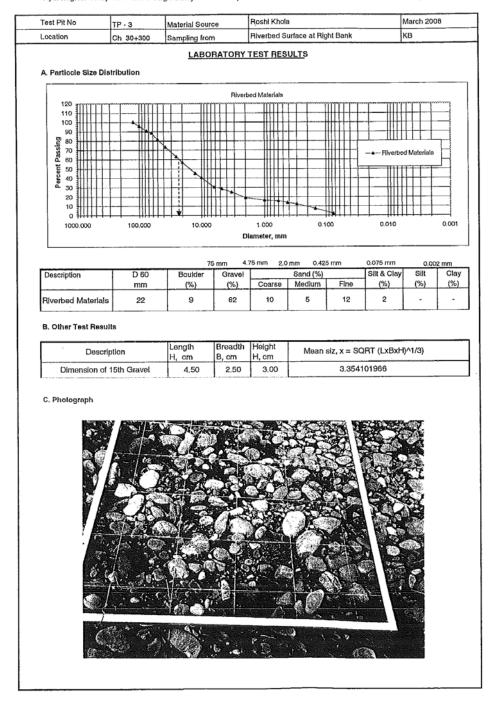
Chainage: Ch 30+300

Test Pit No: 3 Aprox. Dimension of TP: 0.90 x 0.90 x 0.60 m

Classification	Safine	L	Type and	CLASSIFICATION AND DESCRIPTION OF MATERIAL		Dimen	Dimension of 15th Gravel	h Gravel
Group	Graphic	Oepth	Oepth of	(Typical name, colour, in wet condition, odiour, if any degree of plasticity, grain size range and			,	
Symbol		(w)	Sample	description, maisture conditions, degree of compactness and other partition information)	Length	Breadth	Height	
			Taken		ŝ	B. Chi	H, GM	×
					4 6	5.2	m	3,354101856
g	Qr	50'0		0 to 30 cm, Sandy GRAVEL grevish fine orginad sand, micaceous, sub rounded and sub				
5	<	0.10		angular Boulder, flaky gravel fraction, hard and strong				
	>	21.0						
	0	0.20						
	(0.25	ng manum					
)	0.30						
G.		0.35	Bulk for GSA	30 to 60 cm. Sandy GRAVEL, greyish, fine grained sand, micaceous, sub rounded and sub- societies Boulder Halo present feacing hand and strong maximum size of boulder				
		9.40		Institute of 22 x 12 x 7 cm				
		5,45						
	0 '	0.50						
	y	0.55						
	0	90						

Test Pit Log of Grid Sampling at Location TP-3 $\,$

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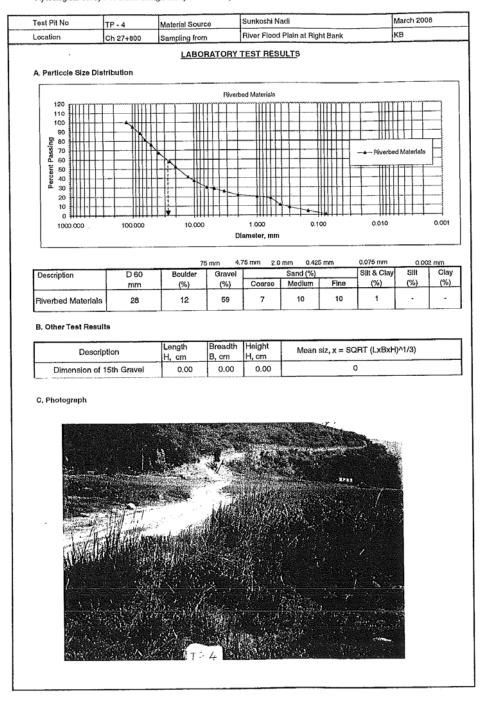


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TEST PIT LOG OF GRID SAMPLING
Hydrological Study For Basic Design Study on The Project For Construction of Sindhuli Road Construction, Section III

Chainage: <u>Ch 27±800</u> Location: <u>Sunkosi Na</u>	th 27+80(Inkosi Na	Chainage: <u>Ch 27+800</u> Localion: <u>Sunkosi Nadi Flood Plain</u>	lain	Ground Elevation: <u>519,580 m</u> Coordinates: <u>W 3035719,730 and E 384663.326</u> Aprox. Dimension of TP: <u>0,90 x 0,70 x 0.65 m</u>	.90 × 0.70 × 0.65	W.	0 3	Date: Logged By:	March 2008 KB	
Classification	ation		Type and	CLASSIFICATION AND DESCHIPTION OF MATERIAL		Dim	ension of	15th Grave	Dimension of 15th Gravel at Riverbed	
Group	Graphic	Depth (m)	Depth of Sample	(Typical name, colour, in description, moisture cond	Len	Length	Breadth	Height	Mean size, x =	
					L, cm	\dashv	B, cm	H, cm	SQRT((Lx8xH)^1/3)	
MS		0.05		0 to 25 cm,	0		0	0	0	
	<u> </u>	0.10		Silty SAND, greyish, fined grained sand, grass roots extended uptp 10 cm from ground level	E		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		0.15								
		0.20						*		
		0.25						`		
MS	0	0:30		25 to 50 cm, Sity SAND, greyish, fine grained sand, with occasional rounded boulder						
		0.35							:	
		3						•	-	
	0	0.40								
		0.45								
		0.50								
GP	0	0.55	Bulk for GSA	50 to 60 cm, Sandy GRAVEL, greyish, fine grained sand, little micaceous mixed with little non	non					
	$\stackrel{\circ}{\supset}$	080		plastic fines, sub rounded and sub angular, hard & strong maximum size of boulder fraction of 23 x 20 x 9 cm						

Test Pit Log of Grid Sampling at Location TP-4

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Om Owith	0.30 x 0.80 x 0.60 m Length L, cm 0 om d with	Ground Elevation: <u>517.352 m</u> Coordinates: <u>N 3035397.180 a</u>	CLAS	in wet c		sh. fine				yish/	rong i	
		and E 384904.652	ASSIFICATION AND DESCRIPTION OF MATERIAL	(Typical name, colour, in wet condition, odour, if any degree of plasticity, grain size range and description, moisture conditions, degree of compactness and other pertinent information)		n orained sand orass roots extended upto 12 cm from				40 to 60 cm, Gravelly SAND, grayish/brownish, fine grained sand, little micaceous, mixed with	fractions, hard & strong maximum size of boulder fraction of 16 x 13 x 5 cm	
Logged By: n of 15th Grave H, cm H, cm		March 2008 KB	Dimension of 15th Gravel at Riverbed		0 0					 		

Test Pit Log of Grid Sampling at Location TP-5 $\,$

Hydrological Study For Basic Design Study on The Project For Construction of Sindhuli Road Construction, Section III

