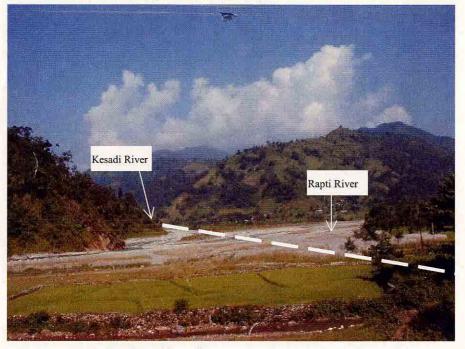


Mahabharat Thrust (MT)

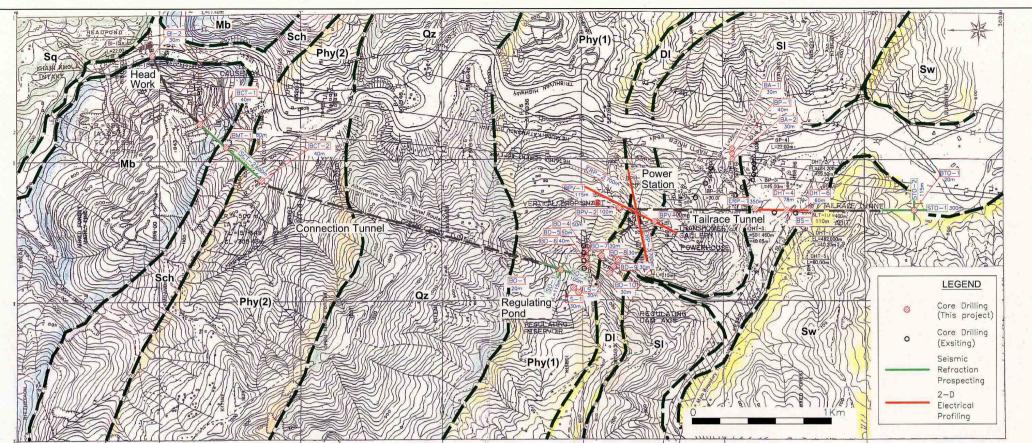
Main sheared zone appears to be 30 to 50m in width, however several sheared and fractured zones of less width are distributed associating with MT.



Main Boundary Thrust (MBT)

The sheared zone appears to be around 200m in width, however less-sheared zones of Siwalik sandstone are distributed within the MBT.

Figure B2.2.5 Thrust Faulting in Project Area



AGE GROUP		FORMATION	SYMBOL	ROCK TYPE	GEOLOGY		Internet and the second	Geophysical Prospe				Prospec				Borehole Test In-situ				est	-		-	Lavorate		tory Test				
+ 2	2	TONMATION		Riverbed deposits	Sand and gravels with bolders Talus deposits and terrace deposits.	Structure	Demanded Data for DetailedI Design	Core Boring			Scismic Refraction Prospecting		2-D Electrical Resistivity Prospecting		Pen	Standard Penetration Test		Test R	Rock Shear Test		Plate Loading Test		River-bed Material Test		nit Absorpti sonic ght on measur		Uniaxial Tensile strengt strengt		Engineeri g Works	rin s Rema
ocen	bosit		······					No. (m) Total		No.	(m)	Total		(m) Tot			Nos	Total N	os Tr	tal Nr	s Tot	al No	Tota	I Nos		Nos	Nos	Nos	otal	
<u>م</u>	ă	·····(Uncomformity)·····	Та	Talus and/or Terrace		Headworks	Depth of sound rock	BI-2	30	-	-		-		-		-		-	-				4	1	5	4	4		-
				Conglomerate, Sandstone, Mudstone	Sandstone, mudstone, and small portions of conglomerates. Relatively soft and fractured near MBT.	Vertical Adit	Rock grade	BS-1	110	-	-		-		29		-		-	-				· · ·	-	-		-		
ž	9					Power House	structures	BPV-1	115				ERP-2		- 3	_	12							18	19	31	18	31	Analysis o	F
Siwe	Gro							BPV-2A BPV-2B	20				ERP-3	700	3		8		3	3				3	3	-	3	-	joint and far	It Drillir
		(Main Boundary Thrust)						BPV-3	100	VII.		100	-	-	-		6						100	3	i	-	3	-	set. FEM analysis.	test
			Phy	Phyllite (2)	in general.			BPH-1	60				-	24	-		7							10	8	9	10	9		
			(2)			Vertical Work Ac	Breath of sound weak	DHT-4	78	-			-	12	11		2	_	-	-			1.1	5	1	3	5	3		
Paleozoic Upper Nawakot Group			i			Tailrace Tunnel		DHT-6 BTO-1	60	STO-	-1 300 -2 115	-	ERP-1	350	6	-			443	1.1				6	3	2	2	3	-	
	dig F	Robang Formation			Quartzite. Intercalation of thin phyllite at some localities. Massive and compact in general.	Tairace Tunner		BIU	20			-	LINEI	000	-		-1.1	A					- E	-	- 1	-	-	-		
			Qz			Bridges	Depth of sound rock near abutment and pier	BA-1	30						6				-					3	-	-	1.18	-		
	G		L					BA-2	30	144	~		-	/ -	6		-		-	X				-	-	-	1.00	-	× ~	1.1
	akot		Phy	NO 2017 100200	Blue green phyllites, generally chloritic. Relatively compact in general.		inear abacinone and pro-	BP-1 BCT-1	40	SCT-	-1 600	-			14	_		-	-	-	-				12	- 13	11	- 13		-
	law		(1)	Phyllite (1)		Conection Tunnels	Geological condition of ridges to decide tunnel route	BCT-2	40	S0-					100								1	11	12	-	2	-		
			l					BO-1	20	SO-			-	: -	-		-		-				10.0	2	3	-	1	-	-	
	dan	Malekhu Formation	DI	Siliceous Dolomite	Light-to-dark and greenish gray siliceous dolomites. Intercalation of thin crystalline limestone and cale- phyllites. Massive and relatively well bedded.			BMT-1	80		-		-			_	-		-	_	_			1	3	2	1	-	-	-
	-					Regulating Pondage	Contour map of sound rock Permeability of dam foundation .Rock properties for designing	BD-4 BD-5	50			1.11					9							6	4	-	4	- 9		
								BD-5 BD-6	40						1		5					81		1	1	6	-	6	Survey of slope stabil	
		Berighat Formation		Slate(Phyllitic)	Dark gray slates and phyllites together with black carbonaceous slate. Fractured and weathered near MBT.			BD-7	+ 30		1		(C. 1		+		1					1.1	1.2	3	3	7	4	7	around the	
			SI					BD-8	30	5.	÷		3		-		5	- 1 C - 2	-	2	S. 1		1.1	-	-	-		22	reservoir Esitmate d	
								BD-9	30		10.00	1.1	12.1	1 A 4 4	-		4						<u> 1</u>	2	-	-	-	- 5	accretion	
Concernence of	-		1 []]		Dark green to gray colored two mica and biotite			BD-10 LS-1	30						- 11		3		- 10	10.0				2	0	5	+ +	-	sand.	
	Bhimphedi Group	Kalitar Formation	Sq	Schist, Quarzite	schist with intercalation of quartzite and gamets. Strongly folded and fractured at places.			LS-2	30						13		-							2	3	2	2	2		
				PORTOTOR DIPORTATION			Total	26	1,27	2	5	1,245	3	1.75	10	101		68		3		3	6 (6 86	80	100	81	98	445 -	3
			on Mb		Coarse crystalline marble, limestone with intercalation of thin schist. Marble and limestone are massive and well bedded.	-							-																	
- 6		haise Dobhan Formatio		Limestone																										
				Liniostorio										-	_	_	-	-	_	-	-	_	-	1		_				
6				-	Coarse-crystalline, highly gametiferous mica schist,	THE UPGRADING FEASIBILITY STUDY														Figure B3.1.1										
		Raduwa Formation	Sch	Schist	Coarse-crystalline, highly gametiterous mica senist, gneissie schist. Some quartzites are also seen in this formation.	-									OF	THE KU						DJECT			Fig	lie D	5.1.1			
							IN THE KINGDOM OF NEPAL											Location Map of Geological Investiga												
			hund				JAPAN INTERNATIONAL COOPERATION AGENCY																							
			Jd]								-	JAP		-12 (10)		SHOWN SHI	- 102 (Trible 170)		GENCY		1	Loc	ation	wiap (J	000	Geological III

