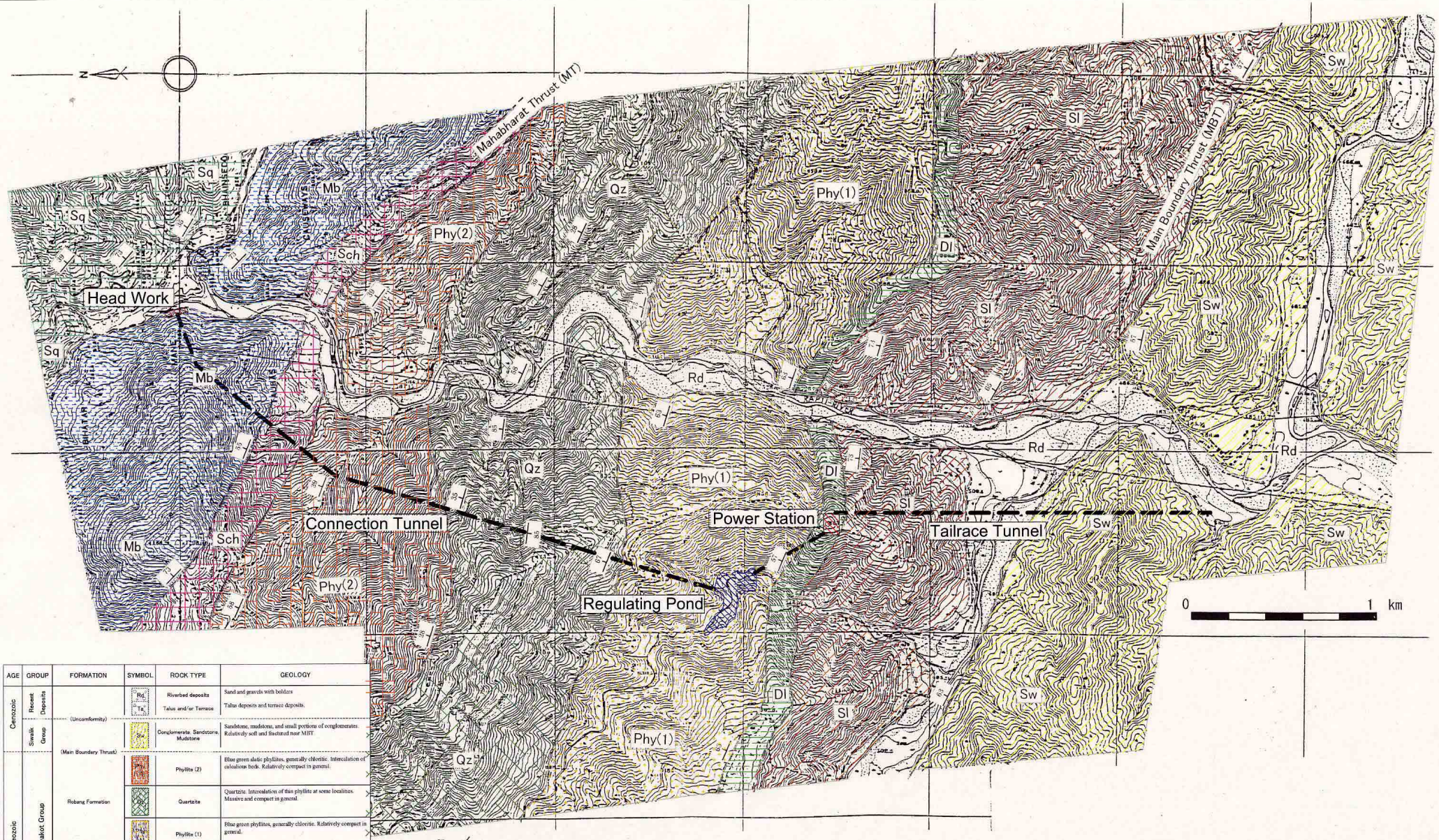

AGE	GROUP	FORMATION	SYMBOL	ROCK TYPE	GEOLOGY
Cenozoic	Recent Deposits		Rd	Riverbed deposits	Sand and gravels with bolders
			Ta	Talus and/or Terrace	Talus deposits and terrace deposits.
		(Unconformity)			
	Siwalik Group		Sw	Conglomerate, Sandstone, Mudstone	Sandstone, mudstone, and small portions of conglomerates. Relatively soft and fractured near MBT
		(Main Boundary Thrust)			
Paleozoic	Upper Nawakot Group	Robang Formation	Phy(2)	Phyllite (2)	Blue green slatic phyllites, generally chloritic. Intercalation of calcalous beds. Relatively compact in general.
			Qz	Quartzite	Quartzite. Intercalation of thin phyllite at some localities. Massive and compact in general.
			Phy(1)	Phyllite (1)	Blue green phyllites, generally chloritic. Relatively compact in general.
		Malekhu Formation	Dl	Siliceous Dolomite	Light-to-dark and greenish gray siliceous dolomites. Intercalation of thin crystalline limestone and cale-phyllites. Massive and relatively well bedded.
		Benighat Formation	Sl	Slate(Phyllitic)	Dark gray slates and phyllites together with black carbonaceous slate. Fractured and weathered near MBT.
		(Mahabharat Thrust)			
Pre-Cambrian	Bhimphedi Group	Kalitar Formation	Sq	Schist, Quarzite	Dark green to gray colored two mica and biotite schist with intercalation of quartzite and garnets. Strongly folded and fractured at places.
		Bhaise Dobhan Formation	Mb	Limestone	Course crystalline marble, limestone with intercalation of thin schist. Marble and limestone are massive and well bedded.
		Raduwa Formation	Sch	Schist	Course-crystalline, highly garnetiferous mica schist, gneissic schist. Some quartzites are also seen in this formation.

58 Bedding (Dip & Strike)

* Mahabharat Thrust (MT):
Considered as an extension of Main Central Thrust (MCT), which forms the boundary between Higher and Lower Himalayas. Movement of MCT appears to be 5 cm/year in recent years. MT is said to be basement thrust of Kathmandu Nappe which includes Bhimphedi Grou.

* Main Boundary Thrust (MBT):
This thrust forms the boundary between Lower and Sub Himalayas. Siwalik sandstone of folded and faulted Tertiary sedimentary rock have been overthrusted in the south of MBT.

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Figure B2.2.2
Geological Map of Project Area