



Stratigraphy and Engineering Geology of Rocks in Project Area

AGE	GROUP	FORMATION	SYMBOL	ROCK TYPE	GEOLOGY
Cenozoic	Recent Deposit		Rd	Riverbed deposits	Sand and gravels with boulders
			Ta	Talus and/or Terrace	Talus deposits and terrace deposits
Cenozoic	Siwalik Group	(Unconformity)			
			Sw	Conglomerate, Sandstone, Mudstone	Sandstone, mudstone, and small portions of conglomerates. Relatively soft and fractured near MBT.
		(Main Boundary Thrust)			
		Robang Formation	Phy(2)	Phyllite (2)	Blue green slatic phyllites, generally chloritic. Intercalation of calcaceous beds. Relatively compact in general.
			Qz	Quartzite	Quartzite. Intercalation of thin phyllite at some localities. Massive and compact in general.
Paleozoic	Upper Nawakot Group		Phy(1)	Phyllite (1)	Blue green phyllites, generally chloritic. Relatively compact in general.
		Malekhu Formation	Di	Siliceous Dolomite	Light-to-dark and greenish gray siliceous dolomites. Intercalation of thin crystalline limestone and calc-phyllites. Massive and relatively well bedded.
		Berihat 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, Quartzite	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	Coarse crystalline marble, limestone with intercalation of thin schist. Marble and limestone are massive and well bedded.
		Raduwa Formation	Sch	Schist	Coarse-crystalline, highly garnetiferous mica schist, gneissic schist. Some quartzites are also seen in this formation.

\* 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 5cm/year in recent years. MT is said to be basement thrust of Kathmandu Nappe which includes Bhimphedi Group.

\* 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 overthrust in the south of MBT.

図3.3.2 プロジェクト地域周辺の地質