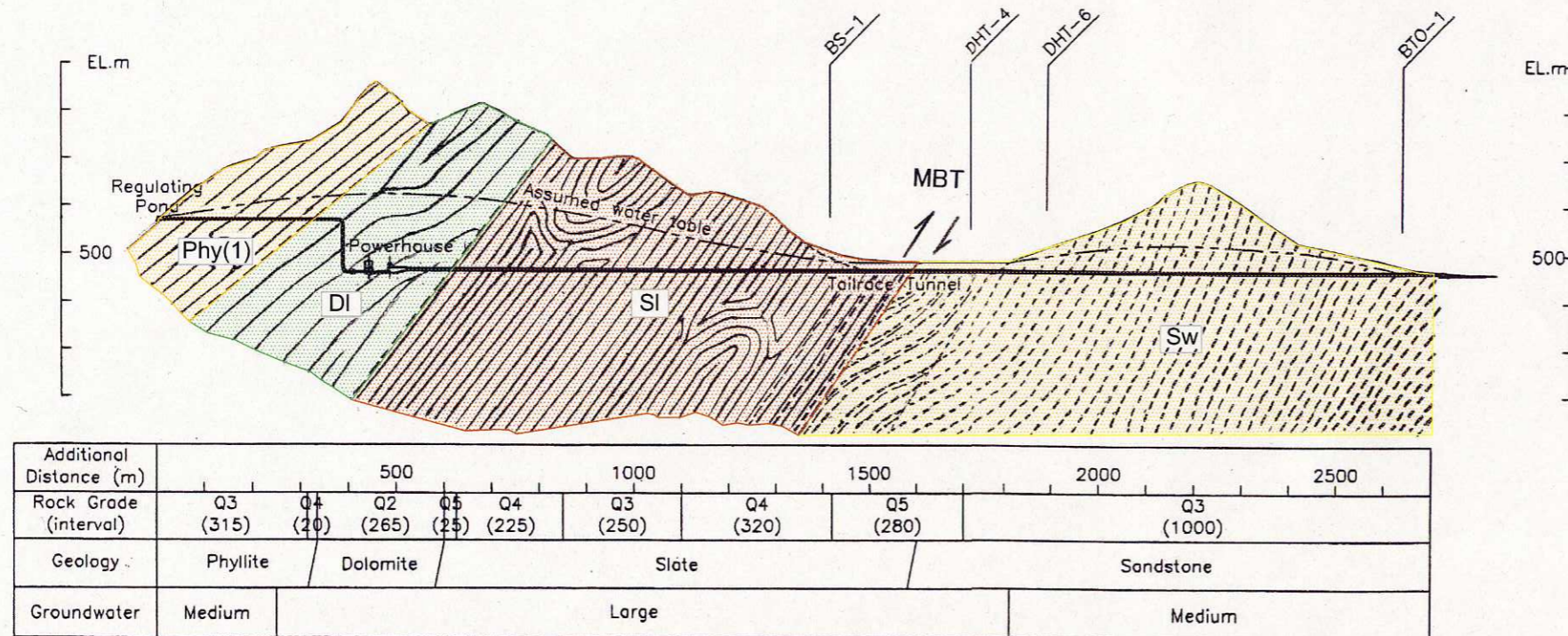


(Inlet To Regulating Pond)



(Regulating Pond To Tailrace)

Stratigraphy and Engineering Geology of Rocks in Project Area

AGE	GROUP	FORMATION	SYMBOL	ROCK TYPE	GEOLOGY
Cenozoic	Recent Deposits		Fig. 3.4	Riverbed deposits Talus and/or Terrace	Sand and gravels with boulders Talus deposits and terrace deposits.
	Siwalik Group	(Unconformity)		Conglomerate, Sandstone, Mudstone	Sandstone, mudstone, and small portions of conglomerates. Relatively soft and fractured near MBT
Paleozoic	Upper Nawakot Group	(Main Boundary Thrust)		Phyllite (2)	Blue green elastic phyllites, generally chloritic. Intercalation of calcareous beds. Relatively compact in general.
		Robang Formation		Quartzite	Quartzite. Intercalation of thin phyllite at some localities. Massive and compact in general.
				Phyllite (1)	Blue green phyllites, generally chloritic. Relatively compact in general.
		Malekhu Formation		Siliceous Dolomite	Light to dark and greenish gray siliceous dolomites. Intercalation of thin crystalline limestone and calc-phyllites. Massive and relatively well bedded.
		Berijhat Formation		Slate (Phyllitic)	Dark gray slates and phyllites together with black carbonaceous slate. Fractured and weathered near MBT
Pre-Cambrian	Bhimphedi Group	(Mahabharat Thrust)		Schist, Quartzite	Dark green to gray colored two mica and biotite schist with intercalation of quartzite and garnets. Strongly folded and fractured at places.
		Kalitar Formation		Limestone	Coarse crystalline marble, limestone with intercalation of thin schist. Marble and limestone are massive and well bedded.
		Bhaise Dobhan Formation		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.

