Site Surveying in Peru

Samridha Kunwar
MPIK

SGSO Meeting
Lisbon, Portugal
May 20th - 22nd, 2019
National Observatory Site (16.88 S, 70.66 W, 4300 – 4400 m)

Conida, UNAM
Along Highway, rare road closure

12 MW power ~ 10 mins from site
Internet currently unknown
National Observatory Site (16.88 S, 70.66 W, 4300 – 4400 m)

Along highway linking Tacna to Puno
National Observatory Site (16.88 S, 70.66 W, 4300 – 4400 m)

Possible lake near by the national observatory site (not visited)
Altitude ~ 4900 m

Tacna (airport and closest major city; 4 hour drive)
Alternative airport (Ilo, closer to site; ~ 3 hour drive)
Port (Ilo), no rail connection to site (closest possibly Puno)
National Observatory Site (16.88 S, 70.66 W, 4300 – 4400 m)

Local contact
Laguna Sibinacochea (13.29 S, 71.01 W, 4892 m)

Dam (8 KW?)
Laguna Sibinacocha (13.29 S, 71.01 W, 4892 m)

Trout fishing
Laguna Sibinacochea (13.29 S, 71.01 W, 4892 m)

Wind direction predominantly away from the dam

Water level rises by up to 1 m in a year (melting snow / ice)
Laguna Sibinacocha (13.29 S, 71.01 W, 4892 m)

Facilities ~5-10 m drive from lake

Infirmary dealing primarily with respiratory issues

Basic Hotel / Hostel (11 beds ; 3 rooms)
Laguna Sibinacocha (13.29 S, 71.01 W, 4892 m)

Closest Airport: Cusco (~3 hrs at 3800 m)
Sicuani (3550 m), Pitumarca (3570 m)
Laguna Sibinacocha (13.29 S, 71.01 W, 4892 m)

Closest Port: Matarani
Train service from Matarani to Sicuani
Laguna Sibinacocha

Local support

Alcalde of Pitumarka
Pitumarka -> Laguna Sibinacochea (I)

Road close to river

Natural flood plain
Pitumarka -> Laguna Sibinacocha (I)

windy

Along cliff
Laguna Sibinacochea

Hotel / Hostel ~ 45 mins from Sibina
(along Pitumarka to Sibina route; 24 beds, 10 rooms)
Pitumarka -> Laguna Sibinacocha (II)

Summer snow

Highest pass
Laguna Sibinachoca -> Sicuani

Access Road
(15 mins from Sibina enroute to Sicuani)
Laguna Languilayo (14.46 S, 71.29 W, 4100 4300 m)
Laguna Languilayo (14.46° S, 71.29° W, 4100 - 4300 m)
Imata (S1 : 15.83 S, 17.18 W, 4384 m)
Imata (S1: 15.83 S, 17.18 W, 4384 m)

Imata - Trucker Stop, very basic accommodation only

Closest Port: Matarani, Closest Airport: Arequipa (2–3 hrs)

Train line from Matarani via Arequipa to Imata
Imata (S1 : 15.83 S, 17.18 W, 4384 m)

Access Road
Imata (S2 : 15.83 S, 71.09 W, 4453 m)
Imata (S2 : 15.83 S, 71.09 W, 4453 m)
Imata (S3 : 15.76 S, 71.05 W, 4462 m)
Imata (S3 : 15.76 S, 71.05 W, 4462 m)
Imata (S3 : 15.76 S, 71.05 W, 4462 m)

Artificial Canal flowing away from lake towards Imata
Imata (S3 : 15.76 S, 71.05 W, 4462 m)

Access Road

Mostly flat lands but damp
Sumbay (15.97 S, 71.34 W, 4119 m)
Sumbay (15.97 S, 71.34 W, 4119 m)
Sumbay (15.97 S, 71.34 W, 4119 m)
Sumbay (15.97 S, 71.34 W, 4119 m)
Thank You!