

	GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA	
	PROJECT	Deep Sea Draft Port Project
	CLIENT	PricewaterhouseCoopers Pvt. Ltd.
	DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
	DATE	November, 2019

Tide observation point location : Off Tajpur Beach

Co-ordinate : E 565468.147, N 2393652.238 (UTM Zone 45 Q)

Elevation : 1.80 M above MSL

Benchmark Details

DGPS Benchmark (DGPS 1)

Co-ordinate: E 563311.020, N 2393649.863, Elevation : 7.517 M

Observation Duration: 14/10/19 to 12/11/2019

Daily Observation Timing: 8:00 hrs. to 17:00 hrs.

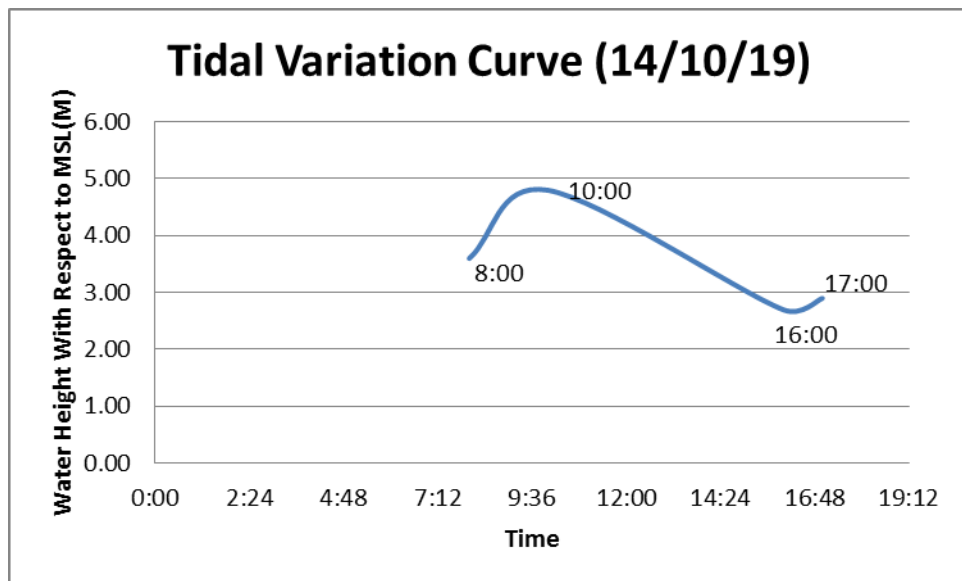
Highest observed water level (MSL): 4.90 M

Highest observed water level date: 15.10.19 & 29.10.19

Lowest observed water level (MSL): 2.20 M

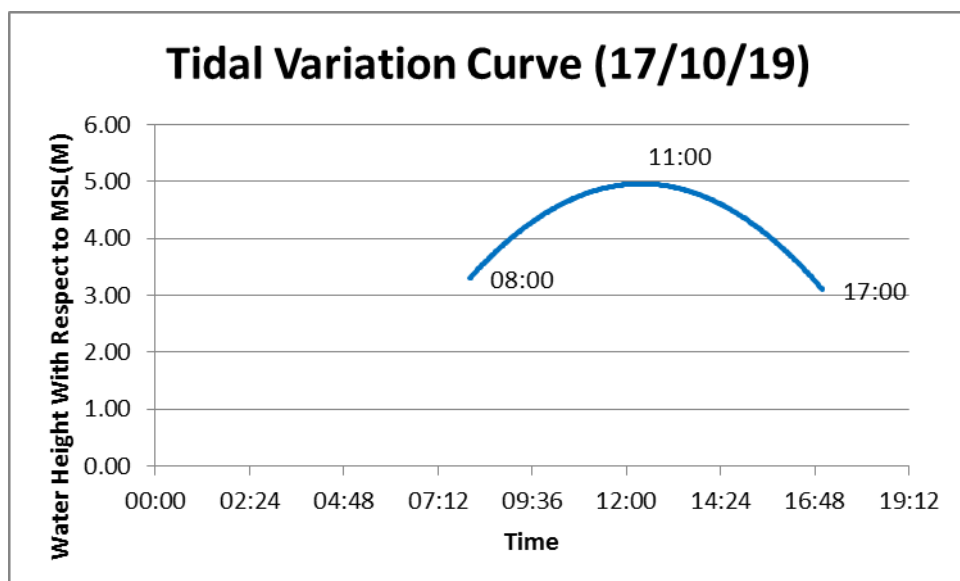
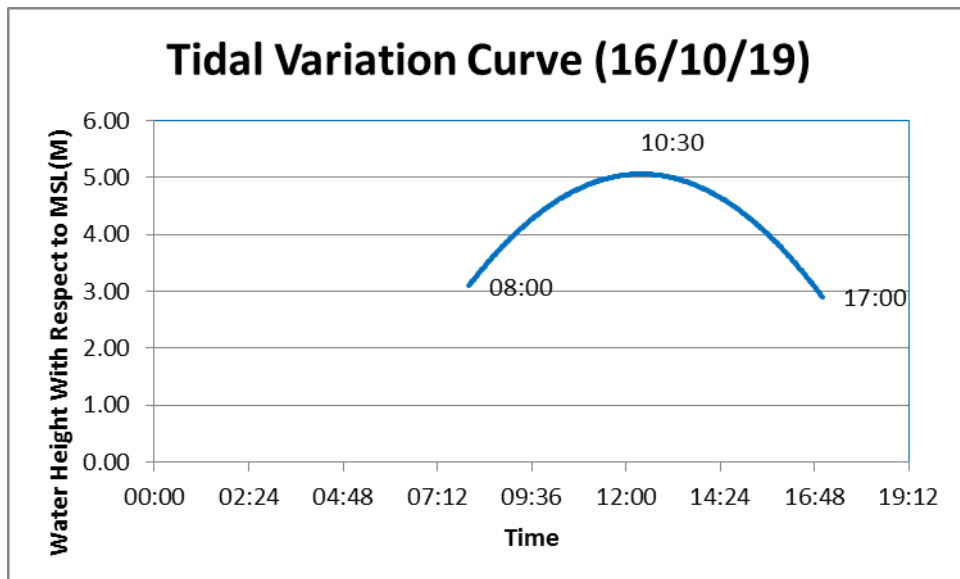
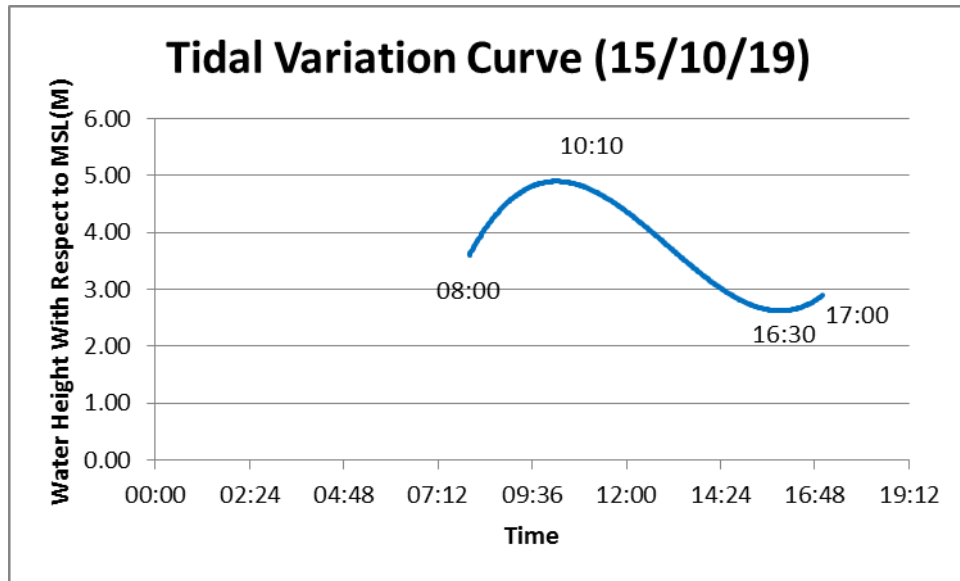
Lowest observed water level date: 07.11.19

Tidal variation curves have been presented below:



GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

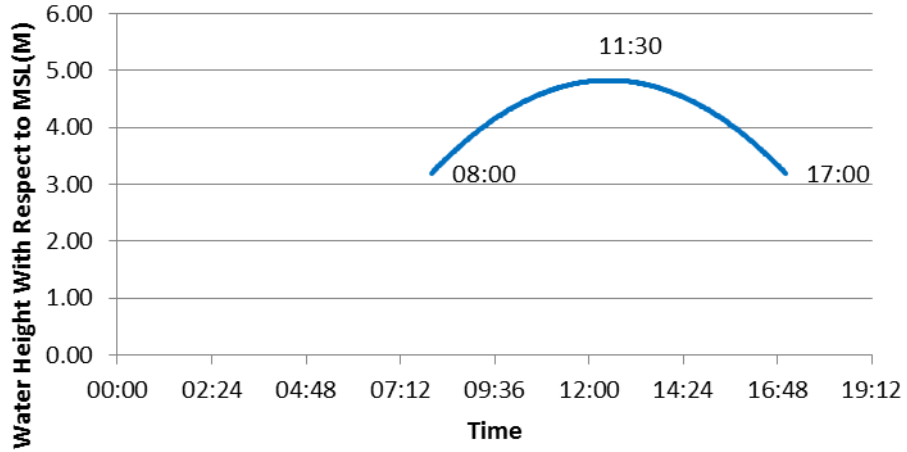
PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019



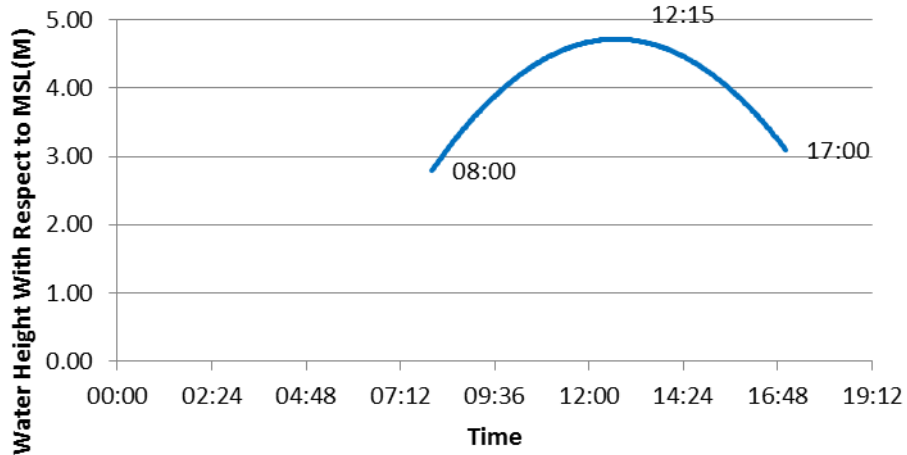
GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

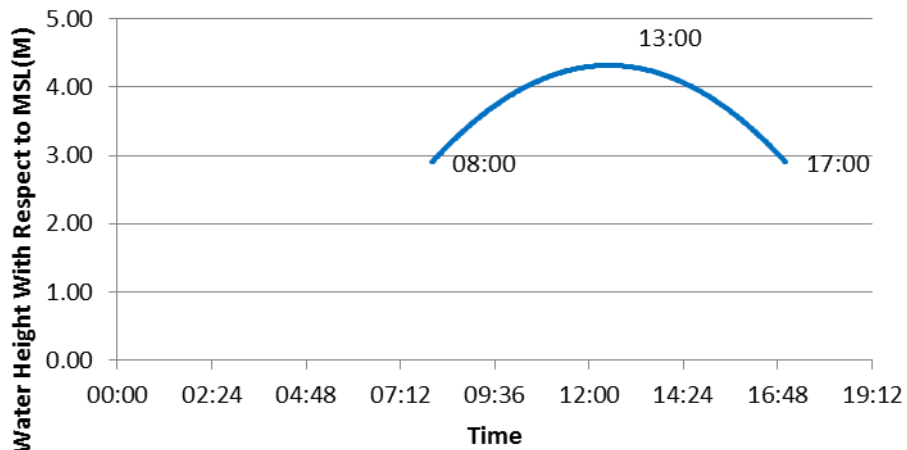
Tidal Variation Curve (18/10/19)



Tidal Variation Curve (19/10/19)



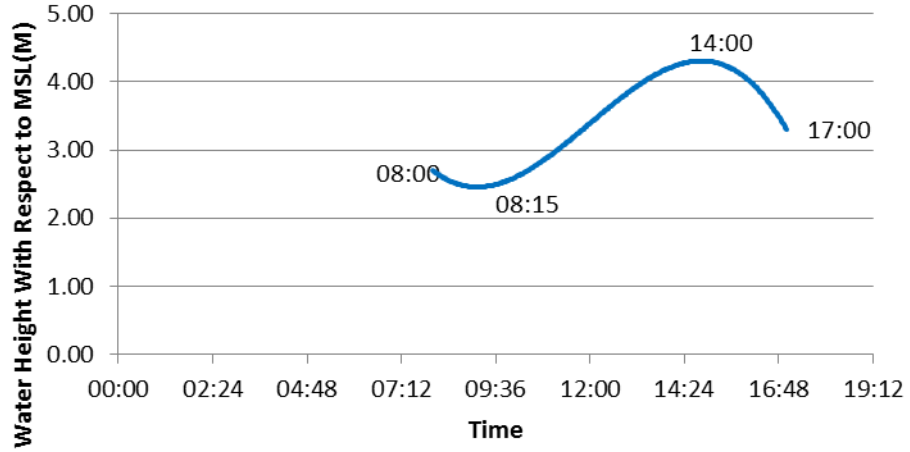
Tidal Variation Curve (20/10/19)



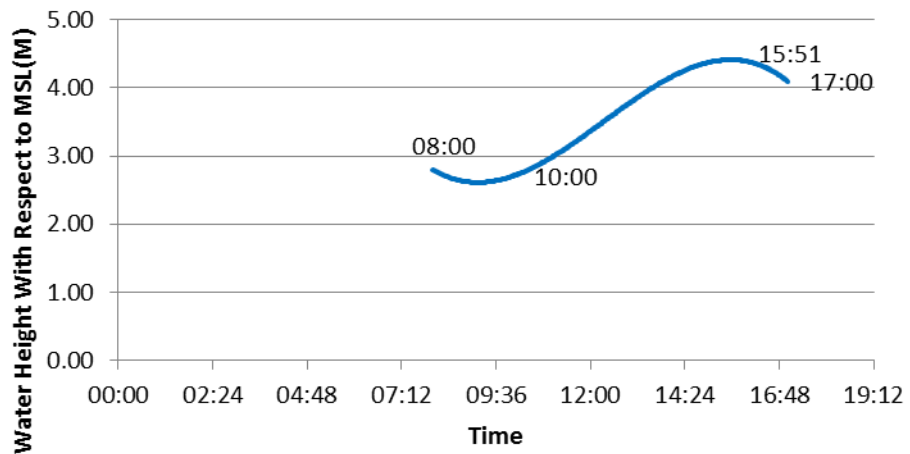
GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

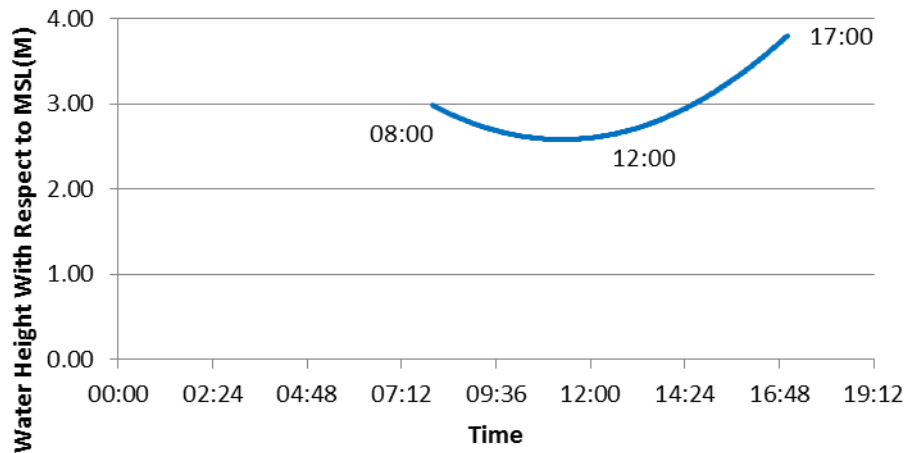
Tidal Variation Curve (21/10/19)



Tidal Variation Curve (22/10/19)



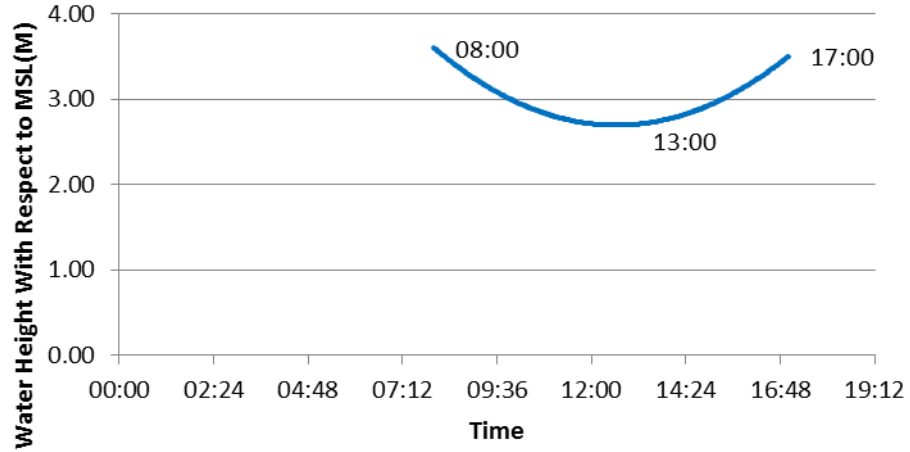
Tidal Variation Curve (23/10/19)



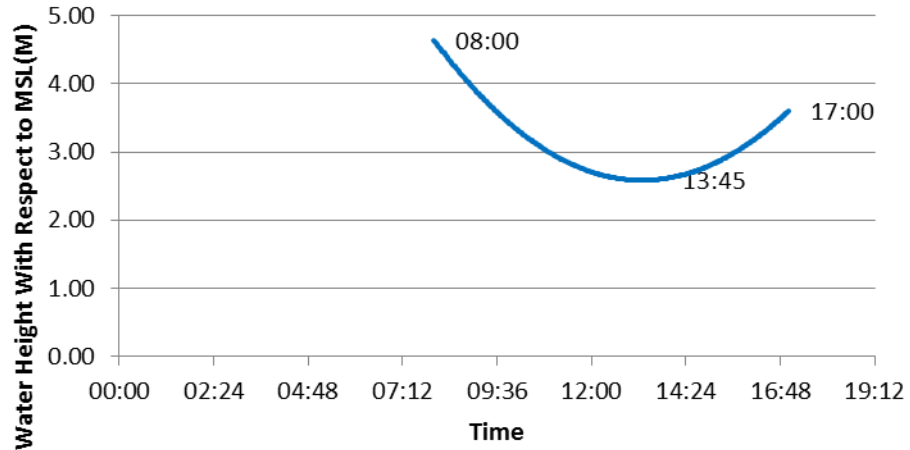
GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

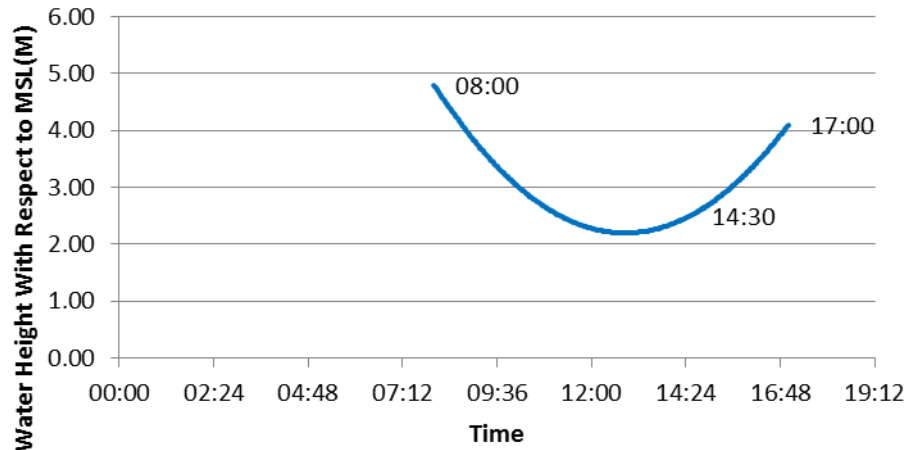
Tidal Variation Curve (24/10/19)



Tidal Variation Curve (25/10/19)



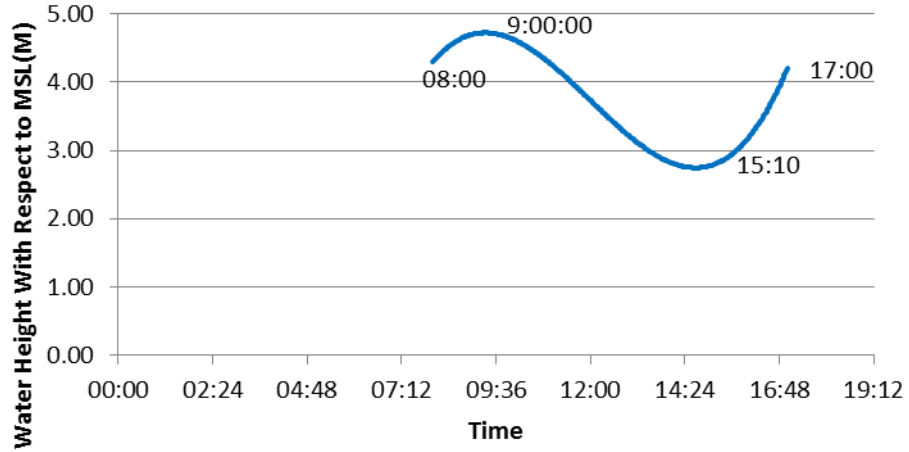
Tidal Variation Curve (26/10/19)



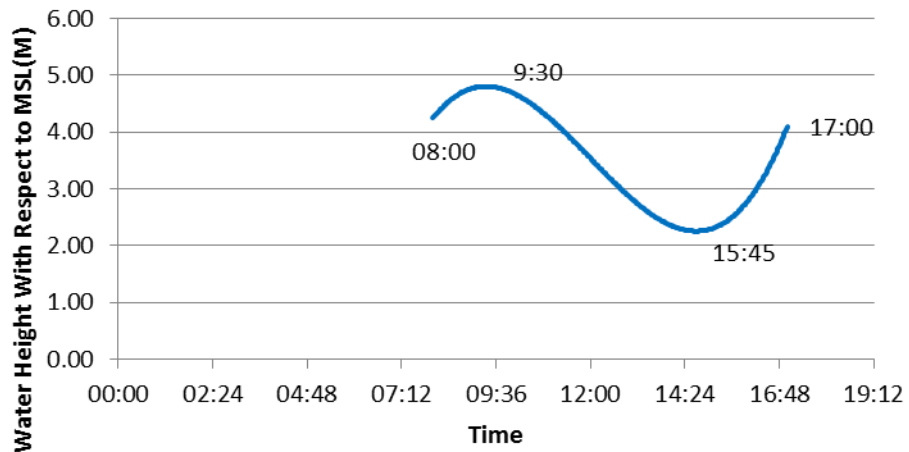
GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

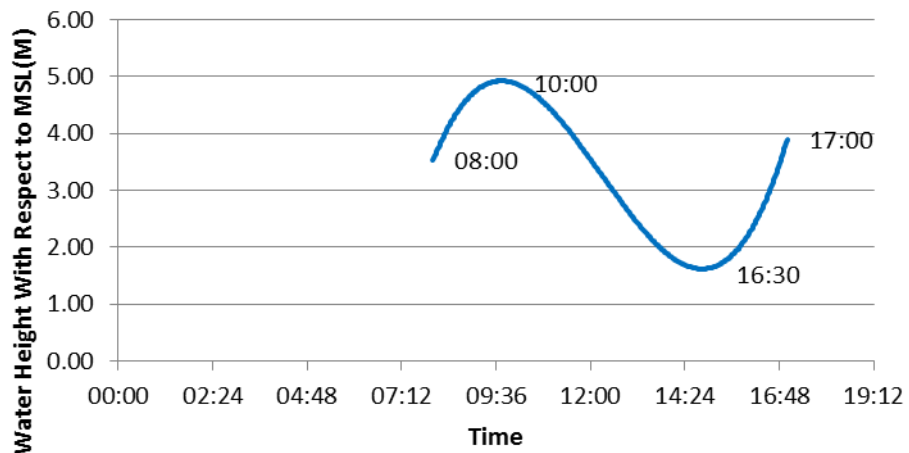
Tidal Variation Curve (27/10/19)



Tidal Variation Curve (28/10/19)



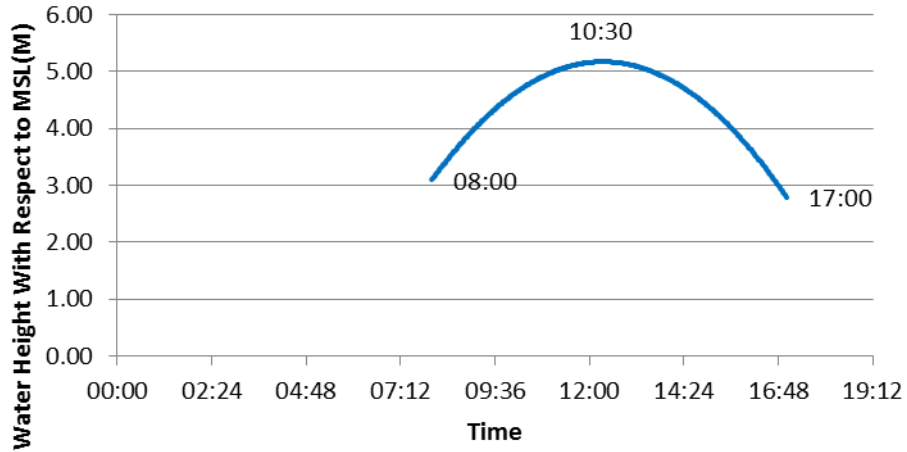
Tidal Variation Curve (29/10/19)



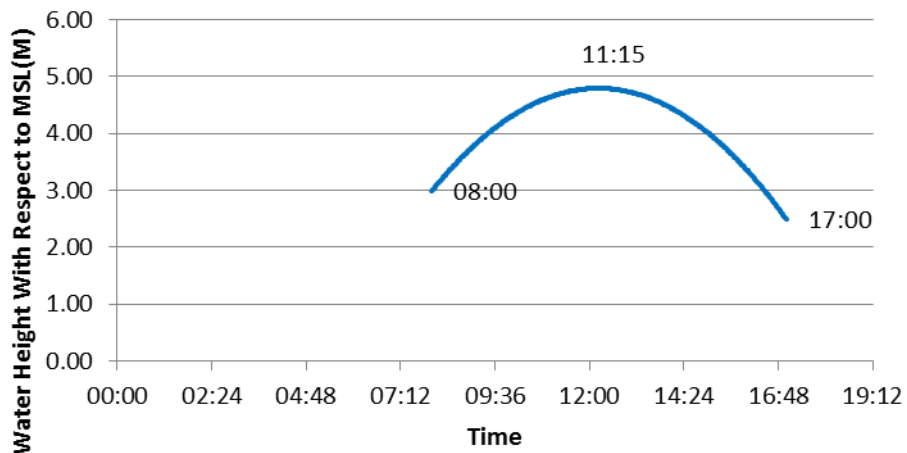
GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

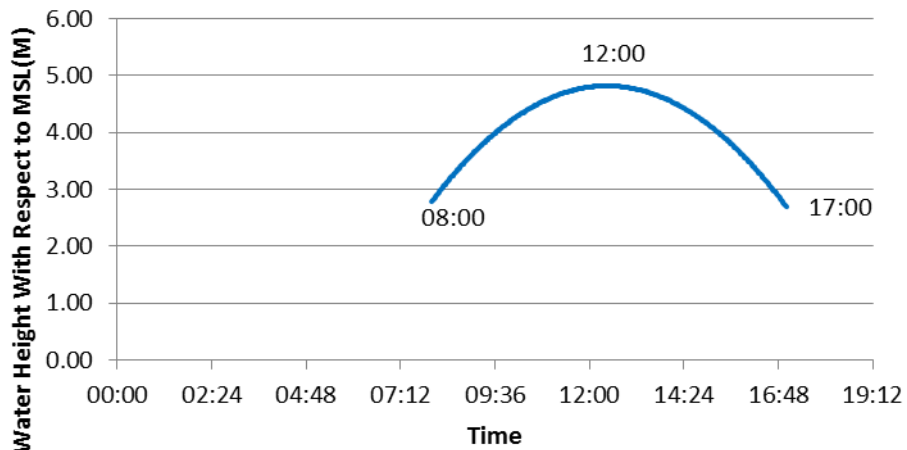
Tidal Variation Curve (30/10/19)



Tidal Variation Curve (31/10/19)



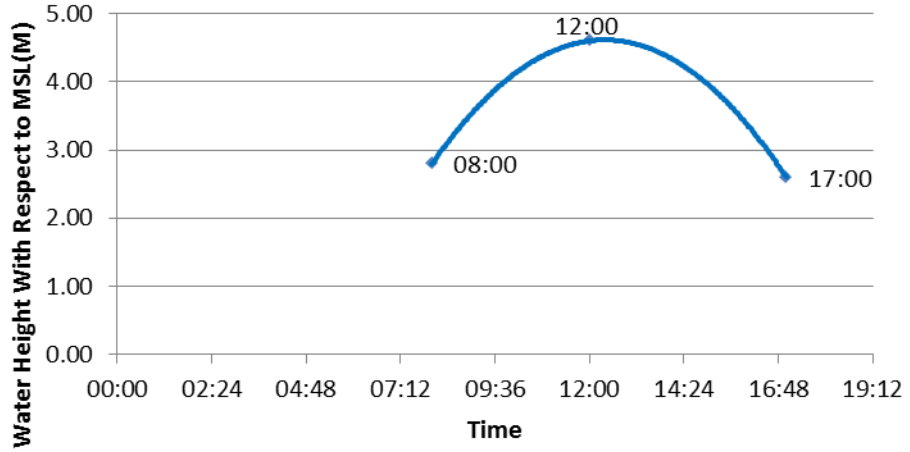
Tidal Variation Curve (01/11/19)



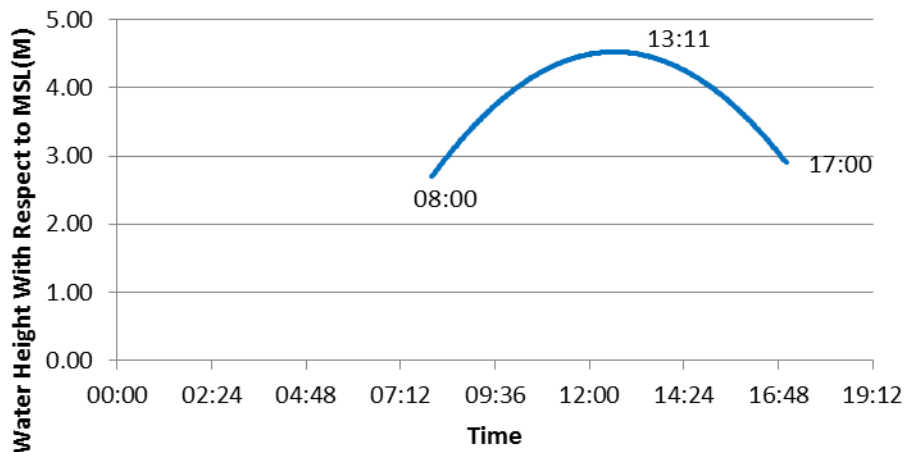
GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

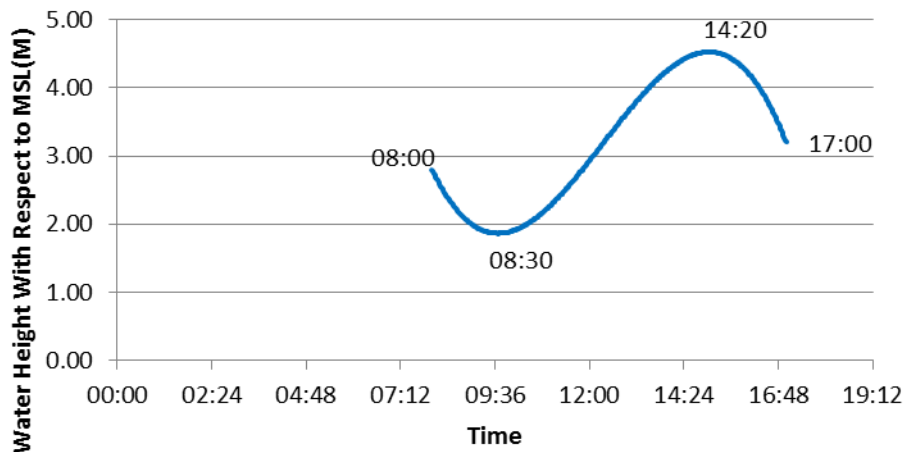
Tidal Variation Curve (02/11/19)



Tidal Variation Curve (03/11/19)



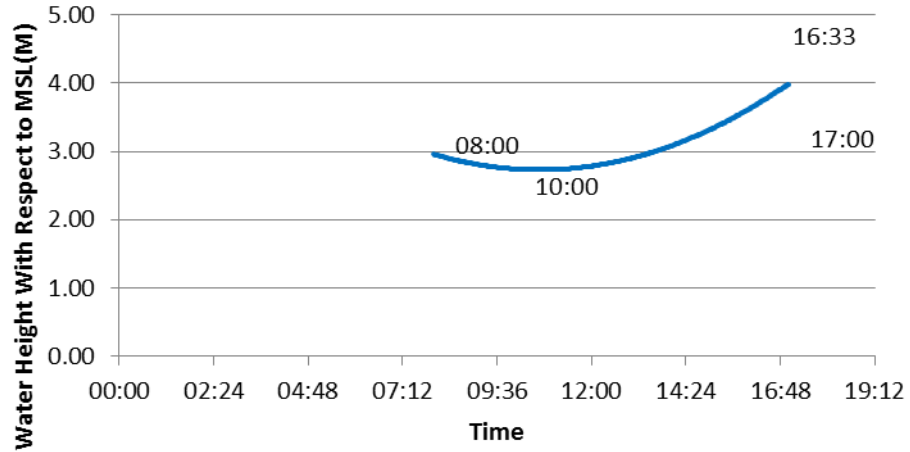
Tidal Variation Curve (04/11/19)



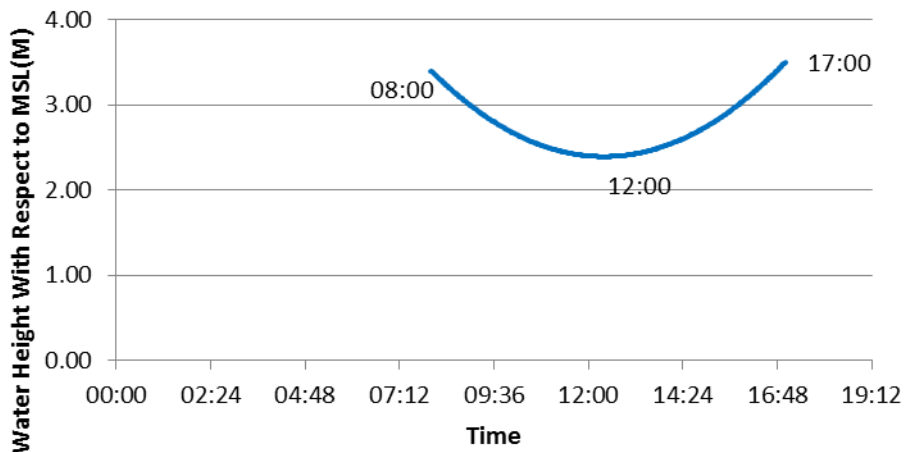
GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

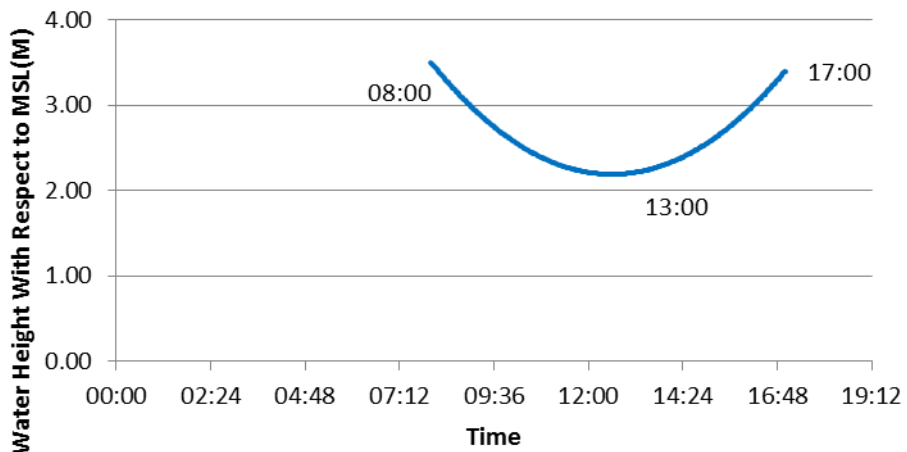
Tidal Variation Curve (05/11/19)



Tidal Variation Curve (06/11/19)



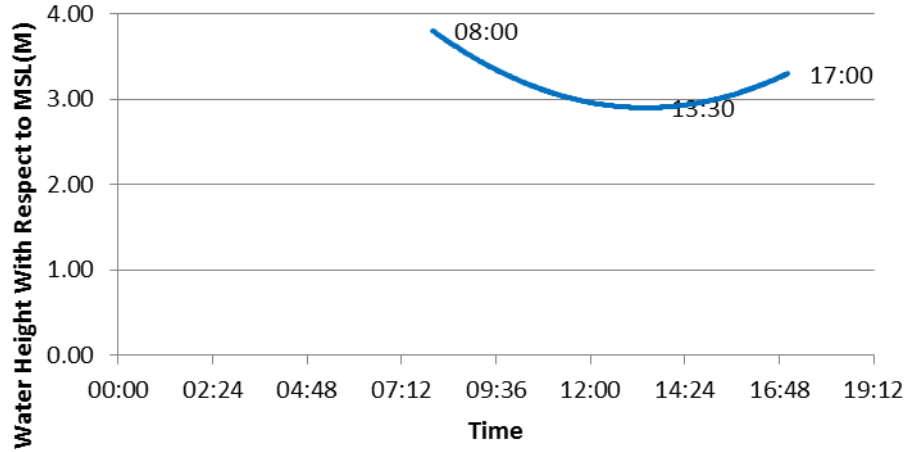
Tidal Variation Curve (07/11/19)



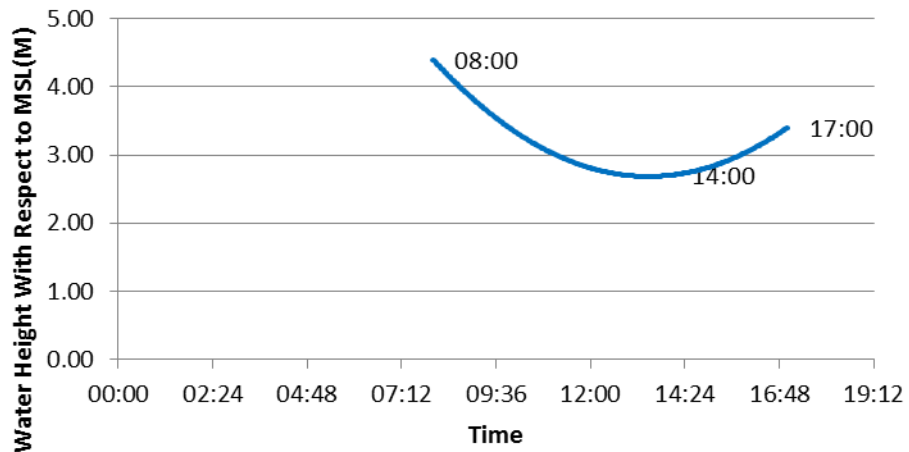
GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

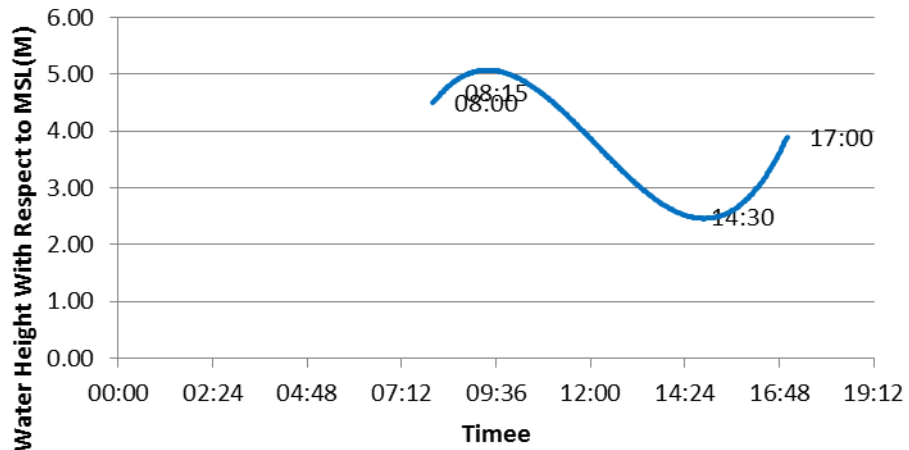
Tidal Variation Curve (08/11/19)



Tidal Variation Curve (09/11/19)



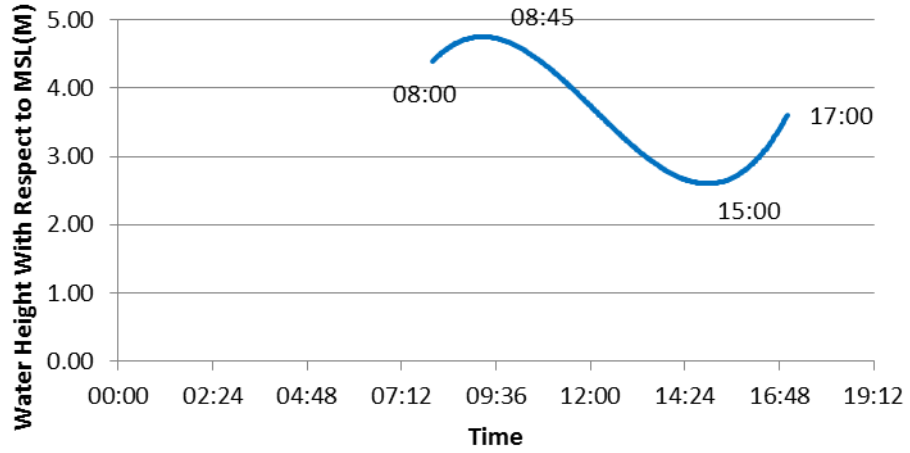
Tidal Variation Curve (10/11/19)



GEOSOLUTION PROSERVICES PVT. LTD., KOLKATA

PROJECT	Deep Sea Draft Port Project
CLIENT	PricewaterhouseCoopers Pvt. Ltd.
DOCUMENT NO.	GPPL/PWC/2019-20/TO/R-01
DATE	November, 2019

Tidal Variation Curve (11/11/19)



Tidal Variation Curve (12/11/19)

