

KANDLA (GULF OF KACHH) TIDE TABLES

The mean range at spring tides is 5.9 metres
The time used in these Tables is the Indian Standard

Time of mean Time of the meridian of $82^{\circ} 30'E$
(5h.30mins) for Local Mean Time (meridian $70^{\circ} 13'E$) subtract 49
minutes.

Times are given on the 24 hours system : 00h is midnight
12h is noon

- Note: 1. These Tide Tables continue to be published as
hitherto except that in accordance with an
international agreement the format of the tables has
been changed, since 1959, so as to show the tides in
the order in which they occur each day instead of
showing them as high and low tides separately in
different columns.
2. The lunar phenomenon at the bottom of the pages
are given for information of the mariners, those
aspects which have a superior effect on tides are
printed in capitals.

the predictions and information about phases of the moon
have been supplied by Survey of India and positional Astronomy
Center IMD Kolkata and are gratefully acknowledged.

Gandhidham
Dec 2022

Deputy Conservator
Deendayal Port Trust

ज्वार माटा सारणी

TIDE TABLE

दीनदयाल पोर्ट (कच्छ की खाड़ी) के लिए
FOR
DEENDAYAL PORT TRUST
(GULF OF KACHCHH)

2022



भारत के महसूलवेधक द्वारा यथाप्रधिकृत रूप में
दीनदयाल पोर्ट द्वारा मुद्रित तथा प्रकाशित

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TIDE TABLES KANDLA (Gulf of Kachchh) SITE OF THE TIDAL OBSERVATORY (1950) Lat $23^{\circ} 01'N$, Long $70^{\circ} 13'E$ PREFACE

The following predictions are based on harmonic
Analysis of observation of 1974 corrected for the actual of
1974 to 1980. The predictions including harmonic shallow
water (HSW) corrections using 100 open sea constants and
19 shallow water constants have been made in IBM.370.
Temporary variations in wind and barometric condition
cannot be predicted and allowed for in these tables.

The heights in these tables are referred to the datum
of soundings in the charts of Kandla. These are given in
meters.

The height of the highest high water and lowest low
water recorded, the local mean sea level etc. with reference to
the datum of soundings are shown in the diagram.

The depth of water at the times of high and low water
will be found by adding the height given in the Tables to the
values of the soundings.

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - JANUARY LAT $23^{\circ} 01'N$, LONG $70^{\circ} 13'E$ TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m		TIME hm	Ht. m
1 SA	0106	6.83	8 SA	0034	1.28
	0737	1.94		0637	6.70
	1257	6.15		1334	1.33
	1945	0.06		1905	5.72
2 SU	0155	7.01	9 SU	0121	1.75
	0837	1.79		0713	6.48
	1353	6.26		1421	1.35
	2040	-0.03		2003	5.57
3 MO ●	0243	7.10	10 MO ○	0216	2.17
	0933	1.63		0753	6.20
	1446	6.37		1510	1.35
	2131	-0.02		2113	5.54
4 TU	0332	7.14	11 TU	0325	2.49
	1025	1.47		0845	5.85
	1538	6.40		1604	1.32
	2219	0.11		2231	5.70
5 WE	0422	7.12	12 WE	0443	2.62
	1116	1.35		0950	5.49
	1629	6.33		1701	1.26
	2304	0.39		2339	5.99
6 TH	0511	7.03	13 TH	0600	2.53
	1203	1.30		1108	5.27
	1720	6.16		1755	1.16
	2350	0.80			
7 FR	0557	6.89	14 FR	0034	6.27
	1250	-1.30		0707	2.33
	1812	5.93		1218	5.22
				1845	1.04

● New Moon ○ Full Moon
⊙ First Quarter ⊙ Last Quarter

①

DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - JANUARY
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
15 SA	0123	6.48	22 SA	0515	6.68
	0754	2.14		1159	1.44
	1309	5.31		1723	5.95
	1929	0.90		2343	1.13
16 SU	0204	6.60	23 SU	0545	6.73
	0832	2.01		1233	1.30
	1349	5.47		1806	5.96
	2009	0.73			
17 MO	0241	6.68	24 MO	0023	1.38
	0906	1.90		0818	6.72
	1428	5.68		1310	1.13
	2048	0.57		1854	5.95
18 TU ○	0315	6.73	25 TU ○	0112	1.66
	0941	1.77		0658	6.58
	1500	5.87		1354	0.98
	2124	0.60		1952	5.92
19 WE	0340	6.73	26 WE	0210	1.98
	1016	1.66		0748	6.29
	1535	5.96		1451	0.86
	2158	0.54		2108	5.92
20 TH	0421	6.70	27 TH	0321	2.28
	1052	1.59		0850	5.95
	1609	5.98		1600	0.74
	2233	0.69		2232	6.10
21 FR	0448	6.66	28 FR	0447	2.37
	1125	1.53		1012	5.75
	1644	5.96		1714	0.56
	2308	0.90		2348	6.40

● New Moon ○ Full Moon
 ⊙ First Quarter ⊙ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - JANUARY
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
29 SA	0613	2.23	30 SU	0051	6.69
	1132	5.76		0729	1.95
	1825	0.37		1245	5.93
				1933	0.21
31 MO	0147	6.88			
	0830	1.64			
	1346	6.15			
	2033	0.12			

● New Moon ○ Full Moon
 ⊙ First Quarter ⊙ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - FEBRUARY
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
1 TU ●	0236	6.99	8 TU ○	0117	2.10
	0923	1.36		0855	6.23
	1444	6.33		1358	1.15
	2124	0.12		2003	6.77
2 WE	0323	7.05	9 WE	0213	2.47
	1012	1.10		0746	5.77
	1535	6.41		1450	1.30
	2209	0.23		2117	5.69
3 TH	0405	7.03	10 TH	0338	2.74
	1058	1.04		0852	5.27
	1622	6.40		1557	1.43
	2252	0.50		2245	5.78
4 FR	0443	6.95	11 FR	0511	2.72
	1140	0.96		1012	4.94
	1705	6.31		1706	1.43
	2329	0.89			
5 SA	0518	6.85	12 SA	0000	6.02
	1217	0.99		0640	2.46
	1744	6.17		1148	4.82
				1810	1.32
6 SU	0004	1.32	13 SU	0058	6.26
	0548	6.72		0734	2.15
	1250	1.02		1254	6.13
	1822	6.03		1909	1.12
7 MO	0038	1.73	14 MO	0144	6.44
	0618	6.54		0814	1.92
	1322	1.06		1338	5.40
	1906	5.90		1956	0.91

● New Moon ○ Full Moon
 ⊙ First Quarter ⊙ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - FEBRUARY
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
15 TU	0222	6.57	22 TU	0007	1.32
	0847	1.73		0550	6.76
	1414	5.68		1239	0.65
	2036	0.72		1831	6.33
16 WE	0255	6.67	23 WE	0053	1.65
	0920	1.54		0628	6.49
	1446	5.94		1322	0.67
	2112	0.60		1922	6.17
17 TH ○	0323	6.74	24 TH ○	0149	2.04
	0954	1.35		0715	6.09
	1520	6.13		1418	0.79
	2146	0.58		2034	6.01
18 FR	0349	6.78	25 FR	0302	2.37
	1029	1.17		0824	5.65
	1553	6.26		1531	0.90
	2219	0.66		2208	6.04
19 SA	0413	6.83	26 SA	0436	2.44
	1102	1.01		0957	5.43
	1630	6.34		1655	0.87
	2252	0.82		2330	6.29
20 SU	0443	6.87	27 SU	0611	2.17
	1134	0.86		1131	5.55
	1709	6.40		1813	0.71
	2328	1.04			
21 MO	0516	6.86	28 MO	0038	6.59
	1205	0.73		0726	1.72
	1749	6.40		1247	5.87
				1926	0.52

● New Moon ○ Full Moon
 ⊙ First Quarter ⊙ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - MARCH
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
1 TU	0136	6.81	8 TU	0002	1.73
	0921	1.30		0536	6.44
	1349	6.18		1227	0.80
	2028	0.39		1824	6.28
2 WE	0224	6.92	9 WE	0035	2.03
	0909	1.00		0612	6.11
	1441	6.39		1258	0.99
	2113	0.39		1912	6.05
3 TH	0303	6.93	10 TH	0121	2.36
	0952	0.82		0659	5.63
	1528	6.51		1343	1.31
	2155	0.54		2018	5.81
4 FR	0339	6.89	11 FR	0229	2.70
	1031	0.73		0805	6.11
	1607	6.53		1451	1.65
	2233	0.79		2139	5.68
5 SA	0410	6.83	12 SA	0417	2.80
	1107	0.71		0927	4.77
	1645	6.51		1615	1.79
	2306	1.11		2312	5.80
6 SU	0439	6.75	13 SU	0555	2.63
	1137	0.72		1107	4.79
	1717	6.46		1734	1.68
	2334	1.43			
7 MO	0507	6.63	14 MO	0021	6.06
	1202	0.73		0701	2.13
	1750	6.40		1230	5.11
				1840	1.43

● New Moon ○ Full Moon
 ◐ First Quarter ◑ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - MARCH
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
15 TU	0111	6.30	22 TU	0447	6.82
	0744	1.79		1139	0.32
	1316	5.48		1732	6.84
	1933	1.18		2358	1.41
16 WE	0149	6.49	23 WE	0526	6.60
	0819	1.51		1215	0.38
	1352	5.81		1815	6.69
	2014	0.99			
17 TH	0220	6.62	24 TH	0045	1.76
	0852	1.27		0610	6.25
	1425	6.10		1300	0.60
	2051	0.88		1907	6.42
18 FR	0246	6.72	25 FR	0143	2.12
	0925	1.04		0704	5.80
	1458	6.35		1400	0.93
	2126	0.84		2022	6.16
19 SA	0309	6.80	26 SA	0302	2.39
	0958	0.80		0823	5.38
	1533	6.57		1520	1.19
	2201	0.88		2155	6.12
20 SU	0336	6.88	27 SU	0440	2.32
	1032	0.58		1007	5.27
	1611	6.75		1648	1.24
	2238	0.97		2314	6.30
21 MO	0409	6.90	28 MO	0609	1.92
	1104	0.40		1142	5.57
	1651	6.85		1808	1.11
	2315	1.15			

● New Moon ○ Full Moon
 ◐ First Quarter ◑ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - MARCH
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
29 TU	0021	6.54			
	0716	1.41			
	1251	6.00			
	1920	0.93			
30 WE	0117	6.71			
	0808	1.00			
	1346	6.34			
	2013	0.83			
31 TH	0201	6.76			
	0848	0.75			
	1431	6.55			
	2056	0.87			

● New Moon ○ Full Moon
 ◐ First Quarter ◑ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - APRIL
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
1 FR	0238	6.72	8 FR	0050	2.33
	0925	0.63		0622	5.47
	1510	6.65		1256	1.41
	2136	1.02		1931	5.98
2 SA	0307	6.67	9 SA	0145	2.61
	0959	0.58		0721	5.07
	1546	6.71		1353	1.83
	2210	1.21		2042	5.78
3 SU	0337	6.63	10 SU	0311	2.74
	1030	0.56		0841	4.81
	1621	6.75		1514	2.07
	2242	1.41		2205	5.79
4 MO	0406	6.50	11 MO	0455	2.52
	1055	0.54		1015	4.86
	1651	6.75		1644	2.01
	2310	1.61		2321	6.00
5 TU	0435	6.42	12 TU	0607	2.09
	1118	0.59		1142	5.21
	1722	6.68		1757	1.77
	2337	1.81			
6 WE	0505	6.20	13 WE	0016	6.26
	1143	0.73		0658	1.66
	1754	6.53		1238	5.64
				1854	1.53
7 TH	0009	2.04	14 TH	0058	6.46
	0540	5.87		0738	1.31
	1213	1.02		1318	6.02
	1834	6.27		1941	1.37

● New Moon ○ Full Moon
 ◐ First Quarter ◑ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - APRIL LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
15 FR	0133	6.57	22 FR	0046	1.87
	0815	1.03		0803	6.04
	1355	6.32		1250	0.70
	2022	1.29		1906	6.64
16 SA	0202	6.64	23 SA ○	0149	2.12
	0849	0.78		0707	5.63
	1431	6.59		1356	1.13
	2103	1.27	2024	6.39	
17 SU ○	0231	6.71	24 DU	0309	2.21
	0826	0.53		0837	5.34
	1510	0.85		1510	1.40
	2143	1.27	2143	6.31	
18 MO	0304	6.78	25 MO	0436	2.02
	1001	0.30		1020	5.40
	1651	7.07		1640	1.58
	2225	1.30		2252	6.37
19 TU	0341	6.78	26 TU	0554	1.61
	1037	0.14		1143	5.78
	1633	7.19		1759	1.53
	2308	1.40		2355	6.47
20 WE	0423	6.67	27 WE	0656	1.18
	1115	0.14		1244	6.21
	1718	7.15		1904	1.43
	2353	1.60			
21 TH	0509	6.41	28 TH	0048	6.51
	1159	0.34		0743	0.86
	1807	6.94		1332	6.62
			1955	1.40	

● New Moon ○ Full Moon
⊙ First Quarter ⊚ Last Quarter

(10)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - APRIL LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
29 FR	0130	6.47			
	0821	0.71			
	1412	6.69			
	2036	1.47			
30 SA	0203	6.40			
	0853	0.64			
	1448	6.77			
	2113	1.57			

● New Moon ○ Full Moon
⊙ First Quarter ⊚ Last Quarter

(11)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - MAY LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
1 SU ●	0234	6.38	8 SU	0117	2.49
	0923	0.59		0846	5.21
	1520	6.85		1314	1.86
	2147	1.66		1948	6.04
2 MO	0306	6.38	9 MO ○	0220	2.61
	0948	0.51		0757	5.08
	1553	6.91		1421	2.09
	2218	1.72		2058	6.03
3 TU	0337	6.36	10 TU	0342	2.33
	1016	0.48		0823	5.14
	1627	6.81		1541	2.13
	2248	1.79		2207	6.16
4 WE	0409	6.22	11 WE	0458	1.93
	1043	0.57		1046	5.46
	1700	6.81		1659	2.01
	2318	1.92		2307	6.32
5 TH	0441	6.00	12 TH	0558	1.49
	1112	0.80		1151	5.87
	1732	6.62		1803	1.85
	2351	2.11		2358	6.44
6 FR	0515	5.73	13 FR	0646	1.10
	1144	1.14		1241	6.26
	1808	6.39		1900	1.75
7 SA	0029	2.31	14 SA	0041	6.48
	0555	5.45		0730	0.80
	1223	1.51		1325	6.57
	1851	6.18		1951	1.71

● New Moon ○ Full Moon
⊙ First Quarter ⊚ Last Quarter

(12)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - MAY LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
15 SU	0122	6.49	22 SU	0151	1.90
	0813	0.55		0714	5.71
	1406	6.83		1349	1.29
	2039	1.70		2012	6.63
16 MO ○	0159	6.54	23 MO ○	0301	1.85
	0854	0.32		0842	5.55
	1446	7.06		1504	1.66
	2127	1.67		2115	6.48
17 TU	0238	6.60	24 TU	0413	1.65
	0935	0.13		1012	6.84
	1531	7.24		1621	1.88
	2214	1.64		2218	6.38
18 WE	0321	6.62	25 WE	0520	1.36
	1017	0.05		1128	5.96
	1617	7.32		1736	1.96
	2303	1.65		2316	6.30
19 TH	0409	6.54	26 TH	0619	1.08
	1100	0.14		1224	6.33
	1708	7.26		1840	1.84
	2353	1.72			
20 FR	0501	6.33	27 FR	0009	6.22
	1150	0.42		0708	0.89
	1804	7.08		1309	6.60
				1932	1.93
21 SA	0049	1.82	28 SA	0054	6.12
	0602	6.02		0746	0.80
	1244	0.84		1349	6.74
	1807	6.85		2014	1.96

● New Moon ○ Full Moon
⊙ First Quarter ⊚ Last Quarter

(13)

DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - MAY
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m	TIME hm	Ht. m
29 SU	0130	6.05		
	0818	0.70		
	1422	6.81		
	2051	1.98		
30 MO	0203	6.06		
	0845	0.68		
	1456	6.87		
	2125	1.98		
31 TU	0239	6.13		
	0913	0.58		
	1629	6.93		
	2158	1.91		

● New Moon ○ Full Moon
 ⊙ First Quarter ⊙ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - JUNE
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m	TIME hm	Ht. m
1 WE	0316	6.17		
	0944	0.52		
	1605	6.92		
	2231	1.89		
2 TH	0349	6.11		
	1018	0.83		
	1640	6.82		
	2305	1.95		
3 FR	0423	5.95		
	1050	0.87		
	1714	6.68		
	2339	2.07		
4 SA	0457	5.75		
	1122	1.19		
	1746	6.51		
5 SU	0015	2.18		
	0535	5.57		
	1159	1.50		
	1820	6.43		
6 MO	0057	2.22		
	0621	5.45		
	1245	1.76		
	1900	6.40		
7 TU	0145	2.14		
	0721	5.40		
	1342	1.96		
	1955	6.39		
8 WE	0244	1.93		
	0834	5.46		
	1449	2.08		
	2055	6.38		
9 TH	0349	1.60		
	0957	5.69		
	1601	2.12		
	2158	6.37		
10 FR	0454	1.22		
	1108	6.08		
	1713	2.10		
	2258	6.34		
11 SA	0552	0.85		
	1206	6.34		
	1819	2.05		
	2355	6.32		
12 SU	0647	0.57		
	1257	6.74		
	1922	2.01		
13 MO	0046	6.32		
	0739	0.34		
	1344	6.97		
	2020	1.95		
14 TU	0135	6.38		
	0829	0.15		
	1430	7.15		
	2114	1.89		

● New Moon ○ Full Moon
 ⊙ First Quarter ⊙ Last Quarter

15

DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - JUNE
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m	TIME hm	Ht. m
15 WE	0223	6.47		
	0918	0.04		
	1516	7.27		
	2207	1.77		
16 TH	0313	6.55		
	1005	0.03		
	1606	7.32		
	2259	1.66		
17 FR	0403	6.53		
	1052	0.19		
	1659	7.28		
	2350	1.69		
18 SA	0459	6.39		
	1141	0.50		
	1754	7.16		
19 SU	0042	1.55		
	0559	6.17		
	1235	0.93		
	1847	6.99		
20 MO	0137	1.52		
	0706	5.93		
	1332	1.41		
	1938	6.78		
21 TU	0234	1.45		
	0821	5.78		
	1436	1.84		
	2028	6.55		
22 WE	0333	1.34		
	0938	5.80		
	1546	2.16		
	2121	6.31		
23 TH	0433	1.20		
	1050	6.00		
	1659	2.32		
	2222	6.07		
24 FR	0529	1.08		
	1150	6.29		
	1809	2.33		
	2324	5.88		
25 SA	0621	1.00		
	1242	6.54		
	1907	2.25		
26 SU	0019	6.75		
	0705	0.96		
	1325	6.68		
	1955	2.16		
27 MO	0105	6.71		
	0742	0.90		
	1403	6.78		
	2035	2.09		
28 TU	0144	5.78		
	0815	0.80		
	1439	6.82		
	2109	2.00		

● New Moon ○ Full Moon
 ⊙ First Quarter ⊙ Last Quarter

16

DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - JUNE
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m	TIME hm	Ht. m
29 WE	0222	5.92		
	0849	0.67		
	1512	6.88		
	2145	1.89		
30 TH	0259	6.06		
	0923	0.60		
	1546	6.89		
	2218	1.81		

● New Moon ○ Full Moon
 ⊙ First Quarter ⊙ Last Quarter

17

DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - JULY
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
1 FR	0334	6.10	8 FR	0255	1.28
	0958	0.64		0908	5.87
	1621	8.85		1514	2.19
	2253	1.80		2054	6.25
2 SA	0408	6.04	9 SA	0358	1.00
	1033	0.82		1025	6.13
	1654	6.76		1630	2.29
	2327	1.83		2205	6.08
3 SU	0442	5.91	10 SU	0504	0.72
	1106	1.07		1135	6.47
	1724	6.69		1749	2.26
	2359	1.85		2314	6.03
4 MO	0519	5.80	11 MO	0611	0.45
	1141	1.33		1236	6.78
	1753	6.67		1902	2.13
5 TU	0035	1.81	12 TU	0021	6.11
	0801	5.74		0713	0.23
	1222	1.56		1329	7.02
	1826	6.67		2008	1.85
6 WE	0113	1.68	13 WE	0121	6.27
	0651	5.73		0812	0.06
	1311	1.78		1418	7.19
	1905	6.62		2105	1.75
7 TH	0159	1.49	14 TH	0217	6.46
	0751	5.76		0907	-0.02
	1409	2.00		1506	7.28
	1954	6.46		2159	1.54

● New Moon ○ Full Moon
 ◐ First Quarter ◑ Last Quarter

(18)

DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - JULY
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
15 FR	0310	6.59	22 FR	0332	1.16
	0957	0.02		0958	5.94
	1553	7.32		1610	2.54
	2249	1.36		2117	5.81
16 SA	0402	6.62	23 SA	0429	1.19
	1044	0.22		1109	6.13
	1642	7.28		1730	2.53
	2337	1.23		2235	5.50
17 SU	0454	6.53	24 SU	0529	1.19
	1129	0.59		1210	6.37
	1727	7.17		1846	2.33
				2356	5.40
18 MO	0023	1.15	25 MO	0625	1.15
	0548	6.34		1302	6.57
	1215	1.05		1941	2.11
	1810	7.02			
19 TU	0108	1.12	26 TU	0055	5.45
	0641	6.13		0717	1.05
	1302	1.53		1347	6.70
	1847	6.83		2021	1.94
20 WE	0153	1.12	27 WE	0139	5.60
	0741	5.96		0759	0.91
	1354	1.97		1426	6.79
	1926	6.57		2057	1.81
21 TH	0240	1.14	28 TH	0214	5.82
	0845	5.89		0837	0.74
	1455	2.33		1458	6.86
	2015	6.21		2129	1.68

● New Moon ○ Full Moon
 ◐ First Quarter ◑ Last Quarter

(19)

DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - JULY
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
29 FR	0247	6.03			
	0912	0.62			
	1530	6.91			
	2202	1.57			
30 SA	0320	6.17			
	0945	0.60			
	1559	6.91			
	2234	1.48			
31 SU	0353	6.21			
	1018	0.71			
	1629	6.88			
	2306	1.42			

● New Moon ○ Full Moon
 ◐ First Quarter ◑ Last Quarter

(20)

DEENDAYAL PORT (KANDLA) YEAR 2022
(GULF OF KACHCHH) INDIA - AUGUST
 LAT 23° 01'N, LONG 70° 13'E
 TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	TIME hm	Ht. m		TIME hm	Ht. m
1 MO	0428	6.18	8 MO	0430	0.75
	1051	0.90		1110	6.37
	1655	6.84		1733	2.36
	2337	1.36		2252	5.76
2 TU	0505	6.14	9 TU	0547	0.51
	1124	1.15		1219	6.71
	1723	6.62		1853	2.08
3 WE	0008	1.27	10 WE	0011	5.99
	0543	6.11		0658	0.28
	1202	1.41		0318	7.09
	1753	6.77		2000	1.69
4 TH	0041	1.18	11 TH	0117	6.30
	0625	6.08		0804	0.08
	1245	1.69		1409	7.19
	1826	6.62		2055	1.36
5 FR	0119	1.06	12 FR	0215	6.57
	0717	6.04		0900	0.01
	1337	2.00		1453	7.27
	1907	6.35		2144	1.09
6 SA	0210	0.98	13 SA	0307	6.73
	0822	6.01		0948	0.09
	1441	2.29		1535	7.27
	2005	6.01		2232	0.91
7 SU	0315	0.90	14 SU	0357	6.76
	0948	6.10		1032	0.35
	1602	2.45		1616	7.21
	2124	5.76		2315	0.81

● New Moon ○ Full Moon
 ◐ First Quarter ◑ Last Quarter

(21)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - AUGUST LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
15 MO	0443	6.68	22 MO	0442	1.50
	1113	0.74		1137	6.14
	1854	7.09		1822	2.34
	2354	0.78		2337	5.11
16 TU	0529	6.52	23 TU	0553	1.41
	1151	1.20		1240	6.40
	1728	6.94		1923	1.98
17 WE	0029	0.82	24 WE	0046	5.34
	0810	6.35		0858	1.21
	1228	1.63		1329	6.62
	1759	6.74		2003	1.71
18 TH	0103	0.89	25 TH	0131	5.61
	0654	6.18		0746	0.98
	1307	2.02		1407	6.76
	1835	6.44		2036	1.53
19 FR ☉	0138	1.01	26 FR	0205	5.88
	0746	6.01		0826	0.80
	1359	2.34		1439	6.85
	1923	6.01		2107	1.39
20 SA	0225	1.23	27 SA ●	0233	6.13
	0853	5.90		0859	0.68
	1515	2.60		1505	6.89
	2027	5.50		2136	1.25
21 SU	0330	1.42	28 SU	0303	6.31
	1017	5.93		0930	0.66
	1647	2.62		1530	6.90
	2149	5.13		2206	1.11

● New Moon ○ Full Moon
☉ First Quarter ☽ Last Quarter

(22)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - AUGUST LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
29 MO	0936	6.43			
	1001	0.74			
	1554	6.90			
30 TU	0411	6.50			
	1034	0.89			
	1621	6.88			
31 WE	0448	6.52			
	1107	1.12			
	1650	6.82			
	2338	0.74			

● New Moon ○ Full Moon
☉ First Quarter ☽ Last Quarter

(23)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - SEPTEMBER LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
1 TH	0525	6.50	8 TH	0914	6.01
	1145	1.39		0851	0.49
	1722	6.69		1306	6.93
2 FR	0009	0.70	9 FR	0118	6.43
	0605	6.43		0757	0.29
	1228	1.71		1354	7.12
3 SA	0047	0.74	10 SA ○	0212	6.72
	0651	6.28		0849	0.28
	1318	2.07		1436	7.17
4 SU ☉	0137	0.86	11 SU	0300	6.88
	0753	6.09		0934	0.40
	1423	2.39		1512	7.14
5 MO	0248	1.00	12 MO	0344	6.88
	0925	6.03		1014	0.68
	1552	2.52		1547	7.06
6 TU	0413	0.98	13 TU	0426	6.81
	1055	6.25		1051	1.03
	1730	2.27		1620	6.93
7 WE	0536	0.76	14 WE	0505	6.70
	1207	6.62		1125	1.39
	1850	1.78		1650	6.76
			2347	0.61	

● New Moon ○ Full Moon
☉ First Quarter ☽ Last Quarter

(24)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - SEPTEMBER LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
15 TH	0540	6.55	22 TH	0023	5.32
	1156	1.71		0830	1.45
	1721	6.52		1257	6.45
16 FR	0012	0.77	23 FR	0109	5.72
	0615	6.38		0723	1.17
	1230	2.01		1337	6.63
17 SA	0042	1.01	24 SA	0142	6.05
	0658	6.16		0803	1.00
	1313	2.32		1408	6.72
18 SU ☉	0125	1.35	25 SU	0212	6.30
	0758	5.92		0837	0.94
	1419	2.61		1431	6.75
19 MO	0230	1.72	26 MO ●	0243	6.49
	0918	5.77		0908	0.96
	1601	2.69		1453	6.76
20 TU	0357	1.89	27 TU	0315	6.64
	1053	5.87		0943	1.02
	1740	2.39		1517	6.77
21 WE	0519	1.74	28 WE	0352	6.77
	1204	6.17		1018	1.12
	1847	1.96		1548	6.76
			2237	0.43	

● New Moon ○ Full Moon
☉ First Quarter ☽ Last Quarter

(25)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - SEPTEMBER LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS				
	TIME hm	Ht. m	TIME hm	Ht. m
29 TH	0430	6.85		
	1055	1.28		
	1620	6.69		
	2310	0.37		
30 FR	0509	6.83		
	1134	1.51		
	1657	6.51		
	2345	0.43		

● New Moon ○ Full Moon
⊙ First Quarter ⊕ Last Quarter

(26)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - OCTOBER LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS				
	TIME hm	Ht. m	TIME hm	Ht. m
1 SA	0550	6.70		
	1218	1.80		
	1740	6.23		
2 SU	0027	6.63		
	0636	6.45		
	1313	2.13		
3 MO	1831	5.85		
	0123	0.95		
	0740	6.17		
4 TU	1424	2.39		
	1944	5.47		
	0239	1.24		
5 WE	0916	6.05		
	1558	2.37		
	2125	5.33		
6 TH	0408	1.29		
	1041	6.23		
	1729	1.97		
7 FR	2307	5.64		
	0533	1.12		
	1151	6.53		
8 SA	1841	1.40		
	0021	6.15		
	0647	0.89		
9 SU	1246	6.79		
	1937	0.89		
	0118	6.58		
10 MO	0745	0.75		
	1333	6.90		
	2022	0.56		
11 TU	0204	6.82		
	0833	0.77		
	1410	6.90		
12 WE	2101	0.41		
	0246	6.92		
	0914	0.93		
13 TH	1444	6.85		
	2137	0.37		
	0324	6.93		
14 FR	0953	1.14		
	1518	6.77		
	2208	0.37		
15 SA	0403	6.91		
	1029	1.35		
	1551	6.66		
16 SU	2238	0.42		
	0439	6.85		
	1102	1.56		
17 MO	1622	6.47		
	2304	0.55		
	0512	6.73		
18 TU	1132	1.78		
	1653	6.20		
	2330	0.77		

● New Moon ○ Full Moon
⊙ First Quarter ⊕ Last Quarter

(27)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - OCTOBER LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS				
	TIME hm	Ht. m	TIME hm	Ht. m
15 SA	0544	6.54		
	1205	2.02		
	1727	5.86		
	2359	1.10		
16 SU	0621	6.28		
	1243	2.29		
	1808	5.47		
	0037	1.51		
17 MO	0712	5.99		
	1335	2.55		
	1904	5.08		
	0133	1.92		
18 TU	0822	5.77		
	1501	2.68		
	2025	4.83		
	0255	2.19		
19 WE	0946	5.76		
	1642	2.44		
	2203	4.89		
	0432	2.12		
20 TH	1106	5.97		
	1752	1.98		
	2337	5.31		
	0546	1.83		
21 FR	1204	6.23		
	1843	1.52		
	0030	6.79		
	0642	1.55		
22 SA	1248	6.43		
	1922	1.16		
	0109	6.17		
	0727	1.40		
23 SU	1322	6.51		
	1955	0.91		
	0145	6.44		
	0807	1.39		
24 MO	1351	6.50		
	2027	0.70		
	0218	6.62		
	0844	1.41		
25 TU	1418	6.51		
	2101	0.52		
	0254	6.78		
	0923	1.44		
26 WE	1447	6.53		
	2134	0.34		
	0331	6.93		
	1004	1.47		
27 TH	1520	6.55		
	2209	0.22		
	0411	7.03		
	1047	1.54		
28 FR	1558	6.49		
	2248	0.21		

● New Moon ○ Full Moon
⊙ First Quarter ⊕ Last Quarter

(28)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - OCTOBER LAT 23° 01'N, LONG 70° 13'E TIMES AND HEIGHTS OF HIGH AND LOW WATERS				
	TIME hm	Ht. m	TIME hm	Ht. m
29 SA	0453	7.01		
	1131	1.67		
	1643	6.32		
	2329	0.37		
30 SU	0540	6.86		
	1219	1.86		
	1733	6.04		
	0018	0.89		
31 MO	0633	6.60		
	1319	2.07		
	1835	5.69		

● New Moon ○ Full Moon
⊙ First Quarter ⊕ Last Quarter

(29)

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - NOVEMBER LAT 23° 01'N, LONG 70° 13'E			
TIMES AND HEIGHTS OF HIGH AND LOW WATERS			
	TIME hm	Ht. m	
1 TU ☉	0119	1.10	8 TU ☉
	0742	6.33	
	1432	2.17	
	1957	5.40	
2 WE	0237	1.45	9 WE
	0905	6.21	
	1556	2.00	
	2142	5.40	
3 TH	0401	1.58	10 TH
	1020	6.28	
	1714	1.58	
	2311	5.78	
4 FR	0523	1.52	11 FR
	1124	6.42	
	1821	1.10	
5 SA	0017	6.27	12 SA
	0632	1.40	
	1219	6.52	
	1914	0.71	
6 SU	0109	6.64	13 SU
	0727	1.34	
	1304	6.51	
	1956	0.52	
7 MO	0151	6.83	14 MO
	0813	1.39	
	1342	6.44	
	2031	0.47	

☉ New Moon ○ Full Moon
☽ First Quarter ☾ Last Quarter

30

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - NOVEMBER LAT 23° 01'N, LONG 70° 13'E			
TIMES AND HEIGHTS OF HIGH AND LOW WATERS			
	TIME hm	Ht. m	
15 TU ☉	0003	1.55	22 TU ☉
	0635	6.13	
	1306	2.42	
	1831	5.16	
16 WE ☉	0052	1.91	23 WE ☉
	0731	5.95	
	1404	2.47	
	1938	5.00	
17 TH	0157	2.19	24 TH ☉
	0838	5.88	
	1522	2.31	
	2105	5.05	
18 FR	0319	2.30	25 FR ☉
	0948	5.94	
	1638	1.92	
	2232	5.37	
19 SA	0440	2.19	26 SA ☉
	1050	6.08	
	1736	1.45	
	2339	5.82	
20 SU	0547	2.01	27 SU ☉
	1142	6.16	
	1824	1.04	
21 MO	0030	6.22	28 MO ☉
	0642	1.88	
	1228	6.19	
	1908	0.73	

☉ New Moon ○ Full Moon
☽ First Quarter ☾ Last Quarter

31

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - NOVEMBER LAT 23° 01'N, LONG 70° 13'E			
TIMES AND HEIGHTS OF HIGH AND LOW WATERS			
	TIME hm	Ht. m	
29 TU	0012	0.74	
	0631	6.79	
	1322	1.79	
	1839	5.74	
30 WE	0114	1.16	
	0734	6.59	
	1427	1.75	
	2001	5.54	

☉ New Moon ○ Full Moon
☽ First Quarter ☾ Last Quarter

32

DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - DECEMBER LAT 23° 01'N, LONG 70° 13'E			
TIMES AND HEIGHTS OF HIGH AND LOW WATERS			
	TIME hm	Ht. m	
1 TH ☉	0225	1.56	8 TH ☉
	0840	6.42	
	1537	1.56	
	2135	5.57	
2 FR	0343	1.82	9 FR ☉
	0944	6.30	
	1644	1.27	
	2254	5.87	
3 SA	0500	1.92	10 SA ☉
	1045	6.22	
	1746	0.97	
	2358	6.27	
4 SU	0609	1.92	11 SU ☉
	1142	6.12	
	1839	0.76	
5 MO	0048	6.58	12 MO ☉
	0708	1.88	
	1232	6.00	
	1922	0.68	
6 TU	0132	6.74	13 TU ☉
	0755	1.89	
	1313	5.88	
	1958	0.87	
7 WE	0208	6.78	14 WE ☉
	0837	1.91	
	1351	5.85	
	2029	0.64	

☉ New Moon ○ Full Moon
☽ First Quarter ☾ Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - DECEMBER LAT-23° 01'N, LONG-70° 13'E					
TIMES AND HEIGHTS OF HIGH AND LOW WATERS					
	TIME hm	Ht. m	TIME hm	Ht. m	
15 TH	0024	1.75	22 TH	0132	6.66
	0645	6.23		0758	2.10
	1328	2.05		1319	5.95
	1902	5.29		2005	0.21
16 FR ○	0117	2.03	23 FR ●	0216	6.84
	0732	6.14		0853	1.97
	1420	1.89		1407	6.11
	2012	5.29		2055	0.08
17 SA	0220	2.25	24 SA	0259	6.99
	0831	6.05		0947	1.80
	1520	1.62		1456	6.27
	2134	5.45		2142	0.02
18 SU	0331	2.37	25 SU	0346	7.10
	0933	5.96		1038	1.64
	1624	1.27		1544	6.36
	2248	5.77		2229	0.10
19 MO	0445	2.37	26 MO	0434	7.13
	1035	5.89		1129	1.50
	1724	0.93		1636	6.32
	2350	6.13		2316	0.34
20 TU	0556	2.30	27 TU	0524	7.08
	1134	5.84		1218	1.41
	1821	0.63		1732	6.17
21 WE	0044	6.43	28 WE	0005	0.72
	0659	2.21		0618	6.96
	1228	5.66		1310	1.34
	1915	0.40		1833	5.96

● New Moon ○ Full Moon
○ First Quarter ● Last Quarter

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DEENDAYAL PORT (KANDLA) YEAR 2022 (GULF OF KACHCHH) INDIA - DECEMBER LAT-23° 01'N, LONG-70° 13'E				
TIMES AND HEIGHTS OF HIGH AND LOW WATERS				
	TIME hm	Ht. m	TIME hm	Ht. m
29 TH	0059	1.18		
	0705	6.79		
	1404	1.29		
	1944	5.78		
30 FR ○	0159	1.62		
	0753	6.55		
	1500	1.19		
	2102	5.74		
31 SA	0307	2.02		
	0847	6.25		
	1558	1.08		
	2217	5.88		

● New Moon ○ Full Moon
○ First Quarter ● Last Quarter

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Note	Important Numbers

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KANDLA (GULF OF KACHH) TIDE TABLES

DIAGRAM
(NOT TO SCALE)

Showing relationship of the datum of soundings etc. at the
Kandla Tidal Station

