

## KANDLA (GULF OF KACHCHH) 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°30'E (5h.30min.) for Local Mean Time (meridian 70°13'E) subtract 49 minutes.

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

**Note:** 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.

Gandhidham  
Dec 2022

Deputy Conservator  
Deendayal Port Authority

## ज्वार भाटा सारणी TIDE TABLES

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

2023



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

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as authorised by the Surveyor General of India

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**TIDE TABLES**  
**KANDLA (Gulf of Kachchh)**  
**SITE OF THE TIDAL OBSERVATORY**  
**(1950)**

Lat 23° 01'N, Long 70° 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.

<b>DEENDAYAL PORT (KANDLA) YEAR 2023</b>					
<b>(GULF OF KACHCHH)-INDIA-JANUARY</b>					
<b>LAT 23° 01'N, LONG 70° 13'E</b>					
<b>TIMES AND HEIGHTS OF HIGH AND LOW WATERS</b>					
	TIME hm	Ht. m		TIME hm	Ht. m
<b>1</b> SU	0422	2.26	<b>8</b> SU	0338	6.72
	0947	5.93		1014	1.74
	1656	0.99		1526	5.96
	2322	6.14		2148	0.58
<b>2</b> MO	0536	2.33	<b>9</b> MO	0411	6.72
	1054	5.66		1046	1.67
	1751	0.94		1559	6.00
<b>3</b> TU	0019	6.40	<b>10</b> TU	2221	0.70
	0646	2.26		0442	6.67
	1200	5.48		1119	1.64
	1843	0.93		1633	5.93
<b>4</b> WE	0109	6.55	<b>11</b> WE	2251	0.93
	0741	2.14		0512	6.60
	1255	5.40		1149	1.63
	1928	0.91		1709	5.81
<b>5</b> TH	0153	6.62	<b>12</b> TH	2325	1.23
	0826	2.05		0541	6.54
	1339	5.44		1219	1.59
	2006	0.84		1747	5.70
<b>6</b> FR	0230	6.65	<b>13</b> FR	0001	1.53
	0904	1.96		0610	6.49
	1417	5.60		1254	1.51
	2041	0.72		1831	5.61
<b>7</b> SA	0306	6.69	<b>14</b> SA	0045	1.83
	0940	1.85		0643	6.38
	1453	5.80		1334	1.39
	2115	0.60		1925	5.55

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> SU	0136	2.12	<b>22</b> SU	0248	7.05
	0723	6.17		0938	1.52
	1422	1.26		1453	6.36
	2034	5.55		2136	-0.05
<b>16</b> MO	0238	2.38	<b>23</b> MO	0334	7.18
	0817	5.89		1029	1.26
	1521	1.11		1543	6.51
	2154	5.69		2222	0.05
<b>17</b> TU	0351	2.55	<b>24</b> TU	0418	7.22
	0926	5.63		1116	1.06
	1629	0.92		1634	6.51
	2308	5.96		2307	0.32
<b>18</b> WE	0515	2.55	<b>25</b> WE	0502	7.18
	1043	5.52		1201	0.94
	1739	0.68		1725	6.40
				2351	0.74
<b>19</b> TH	0014	6.29	<b>26</b> TH	0544	7.05
	0633	2.38		1244	0.89
	1155	5.60		1817	6.23
	1846	0.42			
<b>20</b> FR	0112	6.60	<b>27</b> FR	0035	1.22
	0743	2.12		0624	6.85
	1302	5.83		1327	0.89
	1948	0.19		1912	6.04
<b>21</b> SA	0202	6.86	<b>28</b> SA	0124	1.70
	0844	1.82		0702	6.57
	1400	6.11		1411	0.92
	2045	0.01		2013	5.91

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> SU	0221	2.14			
	0747	6.17			
	1501	1.01			
	2124	5.86			
<b>30</b> MO	0333	2.45			
	0844	5.69			
	1558	1.13			
	2237	5.95			
<b>31</b> TU	0457	2.57			
	1000	5.25			
	1700	1.22			
	2346	6.13			

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b> WE	0625	2.41	<b>8</b> WE	0415	6.74
	1135	5.07		1053	1.23
	1804	1.25		1619	6.17
			2236	0.87	
<b>2</b> TH	0046	6.33	<b>9</b> TH	0442	6.72
	0730	2.16		1122	1.13
	1246	5.13		1653	6.12
	1905	1.16	2308	1.10	
<b>3</b> FR	0136	6.45	<b>10</b> FR	0509	6.68
	0814	1.93		1150	1.05
	1338	5.31		1728	6.05
	1955	1.02	2342	1.39	
<b>4</b> SA	0218	6.54	<b>11</b> SA	0536	6.59
	0851	1.76		1221	1.00
	1415	5.55		1805	5.97
	2035	0.85			
<b>5</b> SU	0253	6.62	<b>12</b> SU	0620	1.69
	0924	1.62		0604	6.42
	1446	5.81		1254	0.98
	2108	0.70	1848	5.89	
<b>6</b> MO	0321	6.68	<b>13</b> MO	0106	2.01
	0955	1.48		0637	6.15
	1515	6.03		1336	1.00
	2139	0.65	1941	5.79	
<b>7</b> TU	0349	6.73	<b>14</b> TU	0202	2.34
	1024	1.34		0724	5.79
	1546	6.15		1432	1.04
	2206	0.70	2056	5.75	

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> WE	0313	2.60	<b>22</b> WE	0352	7.22
	0835	5.44		1053	0.62
	1547	1.03		1624	6.75
	2227	5.89	2252	0.50	
<b>16</b> TH	0448	2.63	<b>23</b> TH	0431	7.13
	1008	5.30		1133	0.54
	1709	0.85		1709	6.68
	2346	6.22	2331	0.92	
<b>17</b> FR	0620	2.35	<b>24</b> FR	0508	6.97
	1137	5.49		1210	0.55
	1826	0.57		1753	6.53
<b>18</b> SA	0051	6.60	<b>25</b> SA	0010	1.37
	0733	1.90		0543	6.74
	1253	5.87		1244	0.63
	1936	0.28	1836	6.35	
<b>19</b> SU	0146	6.92	<b>26</b> SU	0050	1.79
	0832	1.45		0617	6.42
	1353	6.26		1318	0.79
	2035	0.08	1923	6.16	
<b>20</b> MO	0231	7.12	<b>27</b> MO	0138	2.18
	0922	1.07		0659	5.98
	1447	6.57		1401	1.04
	2126	0.03	2024	5.96	
<b>21</b> TU	0313	7.22	<b>28</b> TU	0243	2.52
	1010	0.79		0756	5.44
	1536	6.73		1459	1.35
	2211	0.19	2139	5.83	

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b> WE	0412	2.67	<b>8</b> WE	0318	6.69
	0912	4.96		0954	1.03
	1613	1.58		1528	6.31
	2305	5.90		2149	0.92
<b>2</b> TH	0555	2.50	<b>9</b> TH	0339	6.71
	1108	4.81		1021	0.87
	1729	1.61		1600	6.40
		2218		1.02	
<b>3</b> FR	0015	6.11	<b>10</b> FR	0405	6.69
	0708	2.10		1050	0.74
	1235	5.06		1635	6.44
	1845	1.44		2250	1.19
<b>4</b> SA	0111	6.34	<b>11</b> SA	0434	6.62
	0753	1.76		1119	0.65
	1326	5.40		1709	6.43
	1941	1.18		2325	1.41
<b>5</b> SU	0154	6.51	<b>12</b> SU	0503	6.49
	0828	1.52		1149	0.64
	1403	5.71		1743	6.39
	2022	0.98			
<b>6</b> MO	0228	6.61	<b>13</b> MO	0004	1.69
	0858	1.34		0534	6.28
	1432	5.97		1222	0.71
	2054	0.88		1821	6.28
<b>7</b> TU	0256	6.66	<b>14</b> TU	0049	2.01
	0926	1.18		0610	5.99
	1459	6.17		1303	0.86
	2121	0.88		1911	6.11

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> WE	0144	2.34	<b>22</b> WE	0246	7.09
	0701	5.63		0944	0.45
	1402	1.06		1522	6.93
	2022	5.95		2153	0.64
<b>16</b> TH	0300	2.59	<b>23</b> TH	0322	7.05
	0818	5.30		1023	0.33
	1523	1.19		1607	6.96
	2159	5.99		2233	0.93
<b>17</b> FR	0439	2.53	<b>24</b> FR	0400	6.94
	1000	5.24		1059	0.31
	1652	1.09		1650	6.91
	2323	6.29		2311	1.25
<b>18</b> SA	0611	2.11	<b>25</b> SA	0434	6.75
	1135	5.58		1132	0.38
	1813	0.82		1729	6.80
				2347	1.59
<b>19</b> SU	0029	6.65	<b>26</b> SU	0508	6.50
	0721	1.54		1201	0.55
	1249	6.07		1805	6.62
	1924	0.55			
<b>20</b> MO	0122	6.93	<b>27</b> MO	0023	1.91
	0815	1.04		0542	6.16
	1346	6.50		1232	0.82
	2022	0.41		1844	6.38
<b>21</b> TU	0207	7.07	<b>28</b> TU	0104	2.23
	0901	0.68		0621	5.74
	1436	6.78		1310	1.20
	2110	0.45		1932	6.09

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> WE	0159	2.53		
	0715	5.27		
	1404	1.63		
	2040	5.84		
<b>30</b> TH	0326	2.71		
	0830	4.86		
	1523	1.97		
	2208	5.77		
<b>31</b> FR	0506	2.55		
	1014	4.74		
	1652	2.01		
	2330	5.94		

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b> SA	0625	2.13		
	1205	5.10		
	1811	1.79		
	0030	6.20		
<b>2</b> SU	0715	1.88		
	1257	5.55		
	1910	1.51		
	0115	6.41		
<b>3</b> MO	0753	1.35		
	1335	5.91		
	1953	1.34		
	0150	6.52		
<b>4</b> TU	0824	1.13		
	1408	6.17		
	2026	1.28		
	0216	6.54		
<b>5</b> WE	0851	0.97		
	1434	6.35		
	2056	1.31		
	0239	6.54		
<b>6</b> TH	0919	0.82		
	1506	6.48		
	2127	1.35		
	0303	6.53		
<b>7</b> FR	0947	0.65		
	1539	6.60		
	2201	1.40		
	0330	6.50		
<b>8</b> SA	1018	0.50		
	1614	6.70		
	2237	1.48		
	0401	6.42		
<b>9</b> SU	1050	0.44		
	1649	6.77		
	2315	1.62		
	0435	6.29		
<b>10</b> MO	1123	0.48		
	1726	6.74		
	2355	1.83		
	0515	6.10		
<b>11</b> TU	1201	0.60		
	1807	6.62		
	0044	2.09		
	0601	5.85		
<b>12</b> WE	1248	0.85		
	1900	6.41		
	0144	2.34		
	0702	5.54		
<b>13</b> TH	1352	1.15		
	2012	6.22		
	0304	2.45		
	0827	5.31		
<b>14</b> FR	1516	1.36		
	2140	6.23		

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> SA	0437	2.23	<b>22</b> SA	0330	6.64
	1008	5.40		1022	0.29
	1643	1.34		1625	7.02
	2257	6.43		2251	1.61
<b>16</b> SU	0557	1.73	<b>23</b> SU	0407	6.48
	1137	5.84		1053	0.40
	1803	1.19		1702	6.93
	0000	6.66		2328	1.80
<b>17</b> MO	0702	1.18	<b>24</b> MO	0441	6.24
	1242	6.35		1124	0.64
	1911	1.04		1738	6.75
<b>18</b> TU	0052	6.80	<b>25</b> TU	0002	2.02
	0752	0.74		0515	5.94
	1335	6.72		1153	0.99
	2004	1.02		1812	6.50
<b>19</b> WE	0135	6.83	<b>26</b> WE	0038	2.26
	0834	0.48		0553	5.59
	1420	6.92		1228	1.41
	2050	1.12		1852	6.24
<b>20</b> TH	0213	6.79	<b>27</b> TH	0125	2.49
	0913	0.35		0641	5.25
	1502	7.01		1314	1.84
	2131	1.29		1948	6.00
<b>21</b> FR	0251	6.73	<b>28</b> FR	0235	2.63
	0948	0.29		0748	4.97
	1544	7.04		1423	2.20
	2211	1.45		2100	5.88

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> SA	0406	2.51	<b>30</b> SU	0522	2.12
	0919	4.90		1102	5.17
	1556	2.34		1719	2.19
	2216	5.94		2325	6.12

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b> MO	0618	1.66	<b>8</b> MO	0337	6.26
	1210	5.64		1027	0.37
	1822	1.97		1832	6.95
<b>2</b> TU	0018	6.29	<b>9</b> TU	0418	6.20
	0702	1.28		1107	0.43
	1255	6.04		1713	6.96
<b>3</b> WE	1910	1.82	<b>10</b> WE	2356	1.94
	0055	6.38		0506	6.06
	0737	1.02		1150	0.61
<b>4</b> TH	1331	6.31	<b>11</b> TH	1801	6.86
	1950	1.78		0047	2.06
	0128	6.35		0802	5.86
<b>5</b> FR	0809	0.85	<b>12</b> FR	1244	0.91
	1405	6.47		1857	6.69
	2026	1.79		0150	2.14
<b>6</b> SA	0158	6.30	<b>13</b> SA	0709	5.65
	0842	0.70		1352	1.24
	1439	6.80		2007	6.53
<b>7</b> SU	2104	1.81	<b>14</b> SU	0304	2.07
	0229	6.27		0836	5.53
	0916	0.55		1511	1.51
	1515	6.74		2119	6.49
	2145	1.80		0422	1.76
	0301	6.27		1013	5.71
	0951	0.43		1632	1.63
	1552	6.87		2226	6.53
	2226	1.80			

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> MO	0533	1.31	<b>22</b> MO	0344	6.25
	1132	6.13		1020	0.56
	1747	1.63		1637	6.91
<b>16</b> TU	2327	6.56	<b>23</b> TU	2310	1.90
	0632	0.90		0419	6.09
	1231	6.56		1053	0.79
<b>17</b> WE	1852	1.62	<b>24</b> WE	1711	6.78
	0017	6.54		2344	2.03
	0722	0.63		0454	5.87
<b>18</b> TH	1320	6.82	<b>25</b> TH	1124	1.13
	1945	1.67		1745	6.60
	0102	6.45		0020	2.19
<b>19</b> FR	0804	0.51	<b>26</b> FR	0529	5.62
	1402	6.92		1157	1.50
	2029	1.76		1819	6.42
<b>20</b> SA	0143	6.38	<b>27</b> SA	0058	2.33
	0840	0.48		0813	5.40
	1440	6.95		1237	1.85
<b>21</b> SU	2111	1.84	<b>28</b> SU	1904	6.28
	0224	6.35		0147	2.37
	0913	0.46		0712	5.22
	1519	6.97		1331	2.17
	2152	1.86		2001	6.18
	0305	6.32		0252	2.27
	0946	0.46		0829	5.17
	1558	6.97		1441	2.39
	2232	1.86		2105	6.14



**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> MO	0404	1.98		
	0954	5.35		
	1604	2.43		
	2206	6.15		
<b>30</b> TU	0505	1.59		
	1109	5.72		
	1718	2.34		
	2304	6.16		
<b>31</b> WE	0556	1.22		
	1207	6.09		
	1817	2.24		
	2356	6.12		

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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	
<b>1</b> TH	0642	0.95	<b>8</b> TH	0503	6.19
	1254	6.38		1146	0.59
	1908	2.18		1756	7.07
	0041	6.06			
<b>2</b> FR	0724	0.75	<b>9</b> FR	0049	1.81
	1336	6.56		0602	6.05
	1956	2.16		1241	0.91
	0123	6.02		1850	6.96
<b>3</b> SA	0807	0.60	<b>10</b> SA	0145	1.73
	1415	6.70		0711	5.88
	2045	2.12		1344	1.30
	0203	6.04		1947	6.81
<b>4</b> SU	0849	0.46	<b>11</b> SU	0249	1.56
	1455	6.85		0833	5.81
	2133	2.05		1454	1.66
	0242	6.13		2047	6.65
<b>5</b> MO	0932	0.34	<b>12</b> MO	0354	1.31
	1536	6.98		1001	5.96
	2220	1.96		1610	1.91
	0324	6.21		2148	6.49
<b>6</b> TU	1014	0.30	<b>13</b> TU	0457	1.03
	1619	7.08		1114	6.29
	2308	1.89		1724	2.03
	0410	6.24		2248	6.32
<b>7</b> WE	1058	0.37	<b>14</b> WE	0555	0.79
	1706	7.11		1212	6.60
	2357	1.84		1830	2.08
				2344	6.17

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> TH	0647	0.70	<b>22</b> TH	0434	5.97
	1302	6.79		1101	1.08
	1927	2.09		1720	6.73
<b>16</b> FR	0036	6.01	<b>23</b> FR	0000	1.94
	0731	0.71		0510	5.82
	1345	6.83		1132	1.37
<b>17</b> SA	2015	2.09	<b>24</b> SA	1751	6.64
	0122	5.93		0031	1.97
	0810	0.73		0549	5.67
<b>18</b> SU	1424	6.82	<b>25</b> SU	1208	1.68
	2057	2.07		1827	6.56
	0206	5.96		0108	1.94
<b>19</b> MO	0845	0.71	<b>26</b> MO	0639	5.55
	1501	6.83		1255	1.98
	2138	1.99		1907	6.44
<b>20</b> TU	0247	6.04	<b>27</b> TU	0153	1.84
	0920	0.67		0743	5.48
	1537	6.86		1351	2.25
<b>21</b> WE	2217	1.89	<b>28</b> WE	1959	6.26
	0326	6.10		0247	1.67
	0956	0.69		0901	5.53
	1613	6.86	1455	2.46	
	2254	1.85	2057	6.06	
	0401	6.08			
	1028	0.83			
	1648	6.81			
	2329	1.86			

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> TH	0450	1.17	<b>30</b> FR	0549	0.91
	1121	6.05		1220	6.35
	1725	2.53		1831	2.44
	2300	5.77		2358	5.74

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b>	0645	0.68	<b>8</b>	0037	1.30
	1311	6.59		0558	6.34
SA	1932	2.32	SA	1229	0.94
				1825	7.12
<b>2</b>	0052	5.81	<b>9</b>	0126	1.19
	0739	0.47		0700	6.18
SU	1356	6.79	SU	1324	1.39
	2029	2.17		1911	6.93
<b>3</b>	0144	5.99	<b>10</b>	0218	1.07
	0832	0.29		0814	6.07
MO	1440	6.97	MO	1427	1.83
	2123	1.99		2001	6.65
<b>4</b>	0231	6.20	<b>11</b>	0314	0.97
	0920	0.16		0931	6.10
TU	1523	7.13	TU	1537	2.17
	2213	1.78		2058	6.30
<b>5</b>	0319	6.39	<b>12</b>	0413	0.89
	1007	0.13		1043	6.28
WE	1608	7.24	WE	1654	2.33
	2303	1.59		2205	5.96
<b>6</b>	0409	6.49	<b>13</b>	0511	0.87
	1053	0.26		1146	6.51
TH	1654	7.28	TH	1811	2.32
	2349	1.43		2318	5.72
<b>7</b>	0501	6.46	<b>14</b>	0610	0.90
	1140	0.53		1242	6.66
FR	1740	7.24	FR	1916	2.19

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b>	0023	5.61	<b>22</b>	0452	6.12
	0704	0.93		1112	1.17
SA	1332	6.72	SA	1721	6.80
	2008	2.05		0001	1.47
<b>16</b>	0118	5.61		0530	6.00
	0751	0.93	<b>23</b>	1146	1.47
SU	1415	6.74	SU	1751	6.69
	2050	1.94		0031	1.42
<b>17</b>	0202	5.73		0613	5.87
	0832	0.88	<b>24</b>	1226	1.80
MO	1451	6.77	MO	1822	6.51
	2127	1.82		0108	1.37
<b>18</b>	0240	5.89		0701	5.75
	0909	0.78	<b>25</b>	1313	2.14
TU	1523	6.82	TU	1857	6.23
	2203	1.70		0151	1.32
<b>19</b>	0313	6.07		0805	5.68
	0941	0.72	<b>26</b>	1410	2.44
WE	1553	6.86	WE	1944	5.89
	2236	1.61		0246	1.27
<b>20</b>	0344	6.18		0923	5.72
	1012	0.77	<b>27</b>	1518	2.66
TH	1623	6.88	TH	2050	5.58
	2305	1.56		0352	1.15
<b>21</b>	0417	6.19		1038	5.93
	1041	0.93	<b>28</b>	1642	2.70
FR	1653	6.85	FR	2207	5.44
	2334	1.51			

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> SA	0505	0.94		
	1148	6.23		
	1804	2.54		
	2324	5.52		
<b>30</b> SU	0614	0.86		
	1248	6.57		
	1915	2.26		
<b>31</b> MO	0032	5.78		
	0719	0.37		
	1340	6.87		
	2016	1.93		

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b> TU	0132	6.13		
	0819	0.12		
	1425	7.12		
	2111	1.59		
<b>2</b> WE	0228	6.47		
	0913	-0.02		
	1507	7.30		
	2200	1.28		
<b>3</b> TH	0316	6.71		
	1000	0.00		
	1548	7.40		
	2247	1.03		
<b>4</b> FR	0406	6.81		
	1044	0.21		
	1628	7.40		
	2331	0.85		
<b>5</b> SA	0456	6.77		
	1127	0.59		
	1711	7.31		
<b>6</b> SU	0014	0.74		
	0547	6.62		
	1210	1.06		
	1751	7.14		
<b>7</b> MO	0055	0.71		
	0641	6.42		
	1258	1.54		
	1831	6.88		
<b>8</b> TU	0138	0.73		
	0742	6.24		
	1351	1.98		
	1916	6.49		
<b>9</b> WE	0226	0.84		
	0851	6.13		
	1459	2.32		
	2012	6.01		
<b>10</b> TH	0323	0.99		
	1004	6.14		
	1621	2.48		
	2126	5.56		
<b>11</b> FR	0429	1.14		
	1116	6.26		
	1751	2.38		
	2303	5.33		
<b>12</b> SA	0536	1.22		
	1220	6.44		
	1906	2.07		
<b>13</b> SU	0025	5.39		
	0647	1.19		
	1315	6.60		
	1957	1.78		
<b>14</b> MO	0123	5.56		
	0743	1.06		
	1401	6.71		
	2036	1.59		

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> TU	0205	5.76	<b>22</b> TU	0548	6.17
	0826	0.91		1202	1.74
	1437	6.78		1741	6.39
	2109	1.45			
<b>16</b> WE	0237	5.98	<b>23</b> WE	0028	0.98
	0901	0.79		0627	6.01
	1508	6.83		1245	2.09
	2140	1.34		1811	6.10
<b>17</b> TH	0302	6.19	<b>24</b> TH	0107	1.08
	0930	0.74		0714	5.85
	1531	6.88		1336	2.42
	2209	1.24		1851	5.75
<b>18</b> FR	0331	6.34	<b>25</b> FR	0158	1.18
	0956	0.77		0824	5.74
	1554	6.90		1442	2.68
	2235	1.13		1958	5.41
<b>19</b> SA	0402	6.42	<b>26</b> SA	0310	1.22
	1022	0.90		0957	5.83
	1621	6.86		1613	2.72
	2300	1.03		2133	5.27
<b>20</b> SU	0436	6.40	<b>27</b> SU	0434	1.07
	1052	1.11		1119	6.15
	1648	6.78		1746	2.44
	2327	0.95		2305	5.48
<b>21</b> MO	0512	6.31	<b>28</b> MO	0553	0.74
	1125	1.40		1227	6.57
	1715	6.62		1903	1.97
	2356	0.93			

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> TU	0023	5.92			
	0705	0.39			
	1321	6.96			
	2002	1.47			
<b>30</b> WE	0125	6.40			
	0807	0.12			
	1405	7.24			
	2053	1.03			
<b>31</b> TH	0219	6.78			
	0859	0.03			
	1444	7.40			
	2140	0.69			

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b> FR	0308	7.01	<b>8</b> FR	0235	1.32
	0946	0.13		0918	5.97
	1522	7.45		1547	2.54
	2224	0.46		2051	5.16
<b>2</b> SA	0356	7.07	<b>9</b> SA	0349	1.59
	1028	0.41		1040	5.99
	1600	7.39		1727	2.39
	2304	0.35		2251	5.02
<b>3</b> SU	0444	7.01	<b>10</b> SU	0508	1.64
	1110	0.81		1152	6.20
	1640	7.24		1847	1.97
	2343	0.34			
<b>4</b> MO	0530	6.84	<b>11</b> MO	0020	5.29
	1150	1.25		0628	1.47
	1717	6.98		1251	6.45
				1935	1.57
<b>5</b> TU	0019	0.44	<b>12</b> TU	0113	5.65
	0618	6.61		0728	1.20
	1232	1.67		1337	6.64
	1756	6.62		2013	1.30
<b>6</b> WE	0056	0.65	<b>13</b> WE	0151	5.95
	0707	6.36		0810	0.99
	1320	2.06		1414	6.76
	1838	6.16		2044	1.14
<b>7</b> TH	0137	0.96	<b>14</b> TH	0220	6.19
	0807	6.12		0844	0.89
	1423	2.39		1442	6.79
	1934	5.63		2112	1.03

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> FR	0246	6.37	<b>22</b> FR	0035	0.97
	0911	0.91		0644	6.08
	1502	6.79		1320	2.39
	2136	0.93		1832	5.61
<b>16</b> SA	0313	6.51	<b>23</b> SA	0128	1.19
	0936	0.98		0749	5.90
	1523	6.77		1428	2.60
	2159	0.80		1946	5.31
<b>17</b> SU	0344	6.59	<b>24</b> SU	0245	1.35
	1003	1.09		0924	5.91
	1547	6.71		1601	2.56
	2226	0.67		2126	5.26
<b>18</b> MO	0418	6.60	<b>25</b> MO	0416	1.25
	1034	1.25		1052	6.20
	1614	6.56		1734	2.14
	2255	0.61		2305	5.60
<b>19</b> TU	0453	6.55	<b>26</b> TU	0538	0.95
	1109	1.48		1201	6.62
	1642	6.40		1848	1.55
	2325	0.65			
<b>20</b> WE	0526	6.44	<b>27</b> WE	0020	6.15
	1146	1.77		0651	0.63
	1710	6.17		1254	6.98
	2356	0.77		1944	0.98
<b>21</b> TH	0600	6.26	<b>28</b> TH	0118	6.66
	1228	2.09		0752	0.43
	1743	5.91		1338	7.20
				2031	0.56

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> FR	0207	7.00			
	0843	0.42			
	1416	7.29			
	2114	0.29			
<b>30</b> SA	0253	7.17			
	0928	0.58			
	1454	7.27			
	2155	0.15			

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b> SU	0338	7.21	<b>8</b> SU	0306	2.03
	1011	8.84		0950	5.79
	1534	7.16		1647	2.43
	2232	0.11		2209	4.82
<b>2</b> MO	0425	7.14	<b>9</b> MO	0434	2.07
	1051	1.14		1111	5.94
	1612	6.95		1806	2.02
	2307	0.20		2352	5.21
<b>3</b> TU	0508	6.99	<b>10</b> TU	0557	1.84
	1131	1.46		1212	6.20
	1650	6.64		1858	1.56
	2341	0.43			
<b>4</b> WE	0551	6.75	<b>11</b> WE	0045	6.71
	1213	1.79		0657	1.52
	1728	6.24		1300	6.44
				1937	1.20
<b>5</b> TH	0015	0.79	<b>12</b> TH	0123	6.11
	0634	6.46		0741	1.30
	1257	2.13		1337	6.55
	1809	5.78		2009	0.96
<b>6</b> FR	0056	1.23	<b>13</b> FR	0154	6.39
	0723	6.14		0815	1.25
	1353	2.42		1405	6.56
	1900	5.31		2034	0.82
<b>7</b> SA	0148	1.69	<b>14</b> SA	0223	6.55
	0829	5.88		0845	1.31
	1515	2.58		1427	6.51
	2015	4.92		2058	0.71

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> SU	0252	6.64	<b>22</b> SU	0116	1.23
	0913	1.39		0737	6.15
	1450	6.45		1426	2.42
	2124	0.59		1952	5.34
<b>16</b> MO	0324	6.69	<b>23</b> MO	0236	1.45
	0944	1.48		0901	6.12
	1516	6.36		1555	2.23
	2155	0.49		2131	5.40
<b>17</b> TU	0359	6.70	<b>24</b> TU	0403	1.45
	1020	1.58		1022	6.34
	1545	6.28		1717	1.73
	2225	0.47		2304	5.81
<b>18</b> WE	0432	6.68	<b>25</b> WE	0525	1.27
	1057	1.72		1128	6.62
	1616	6.12		1825	1.14
	2259	0.54			
<b>19</b> TH	0507	6.61	<b>26</b> TH	0014	6.37
	1137	1.91		0635	1.07
	1652	5.96		1223	6.83
	2335	0.70		1919	0.65
<b>20</b> FR	0544	6.49	<b>27</b> FR	0108	6.82
	1221	2.13		0733	0.99
	1735	5.77		1308	6.91
				2005	0.34
<b>21</b> SA	0018	0.94	<b>28</b> SA	0152	7.07
	0631	6.33		0822	1.06
	1316	2.33		1348	6.89
	1834	5.54		2044	0.19

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> SU	0234	7.17	<b>30</b> MO	0319	7.18
	0908	1.20		0951	1.35
	1429	6.83		1509	6.72
	2122	0.13		2158	0.05
<b>31</b> TU	0402	7.13			
	1033	1.49			
	1550	6.54			
	2234	0.29			



**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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		TIME hm	Ht. m
<b>1</b> WE	0445	7.00	<b>8</b> WE	0505	2.28
	1116	1.67		1106	5.94
	1628	6.26		1800	1.62
	2308	0.57			
<b>2</b> TH	0526	6.78	<b>9</b> TH	0001	5.68
	1157	1.89		0610	2.03
	1706	5.92		1202	6.10
	2342	0.97		1844	1.20
<b>3</b> FR	0605	6.50	<b>10</b> FR	0046	6.14
	1239	2.16		0700	1.84
	1744	5.55		1244	6.19
				1920	0.90
<b>4</b> SA	0018	1.44	<b>11</b> SA	0122	6.44
	0646	6.20		0739	1.78
	1327	2.40		1319	6.17
	1830	5.21		1949	0.72
<b>5</b> SU	0102	1.89	<b>12</b> SU	0156	6.59
	0738	5.94		0814	1.81
	1431	2.54		1350	6.11
	1934	4.94		2020	0.59
<b>6</b> MO	0209	2.27	<b>13</b> MO	0230	6.65
	0844	5.78		0850	1.85
	1551	2.43		1420	6.05
	2102	4.87		2053	0.49
<b>7</b> TU	0341	2.42	<b>14</b> TU	0304	6.68
	0958	5.79		0929	1.88
	1703	2.08		1451	6.02
	2249	5.16		2129	0.43

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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		TIME hm	Ht. m
<b>15</b> WE	0339	6.70	<b>22</b> WE	0347	1.67
	1010	1.89		0947	6.41
	1524	6.00		1652	1.30
	2206	0.43		2256	5.99
<b>16</b> TH	0416	6.72	<b>23</b> TH	0505	1.68
	1052	1.92		1050	6.46
	1559	5.96		1755	0.85
	2242	0.51			
<b>17</b> FR	0454	6.72	<b>24</b> FR	0001	6.48
	1136	1.98		0616	1.64
	1644	5.90		1148	6.46
	2323	0.68		1848	0.52
<b>18</b> SA	0537	6.68	<b>25</b> SA	0053	6.82
	1223	2.05		0715	1.63
	1735	5.78		1237	6.40
				1935	0.36
<b>19</b> SU	0011	0.93	<b>26</b> SU	0138	6.97
	0627	6.59		0805	1.68
	1318	2.09		1321	6.30
	1838	5.63		2013	0.33
<b>20</b> MO	0113	1.24	<b>27</b> MO	0218	7.01
	0727	6.48		0852	1.75
	1425	2.01		1406	6.24
	1954	5.51		2050	0.33
<b>21</b> TU	0227	1.52	<b>28</b> TU	0300	6.99
	0836	6.40		0936	1.78
	1540	1.74		1449	6.21
	2129	5.60		2127	6.96

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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		TIME hm	Ht. m
<b>29</b> WE	0341	6.95			
	1019	1.78			
	1532	6.15			
	2206	0.46			
<b>30</b> TH	0423	6.87			
	1103	1.81			
	1610	6.02			
	2241	0.70			

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>1</b> FR	0502	6.72	<b>8</b> FR	0504	2.54
	1143	1.91		1045	5.79
	1645	5.82		1736	1.21
	2315	1.05		2359	5.98
<b>2</b> SA	0538	6.53	<b>9</b> SA	0605	2.40
	1221	2.06		1141	5.76
	1721	5.59		1822	0.91
	2348	1.45			
<b>3</b> SU	0611	6.33	<b>10</b> SU	0047	6.28
	1258	2.20		0656	2.30
	1802	5.37		1230	5.71
				1904	0.71
<b>4</b> MO	0025	1.84	<b>11</b> MO	0129	6.45
	0649	6.17		0744	2.23
	1340	2.25		1314	5.69
	1854	5.20		1948	0.57
<b>5</b> TU	0113	2.20	<b>12</b> TU	0209	6.55
	0740	6.02		0830	2.17
	1436	2.17		1355	5.73
	2009	5.12		2030	0.46
<b>6</b> WE	0220	2.49	<b>13</b> WE	0247	6.63
	0841	5.90		0917	2.09
	1543	1.93		1433	5.81
	2135	5.25		2112	0.38
<b>7</b> TH	0345	2.62	<b>14</b> TH	0325	6.72
	0944	5.83		1003	1.99
	1644	1.58		1512	5.93
	2255	6.68		2154	0.35

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**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>15</b> FR	0404	6.81	<b>22</b> FR	0438	2.07
	1051	1.89		1006	6.18
	1554	6.01		1715	0.75
	2235	0.40		2340	6.41
<b>16</b> SA	0445	6.88	<b>23</b> SA	0553	2.11
	1137	1.80		1110	5.99
	1641	6.03		1812	0.61
	2319	0.56			
<b>17</b> SU	0530	6.92	<b>24</b> SU	0036	6.67
	1223	1.72		0700	2.07
	1735	5.97		1211	5.83
				1903	0.59
<b>18</b> MO	0007	0.83	<b>25</b> MO	0125	6.77
	0617	6.89		0755	2.02
	1314	1.62		1304	5.73
	1834	5.86		1949	0.61
<b>19</b> TU	0104	1.18	<b>26</b> TU	0209	6.76
	0708	6.79		0842	1.98
	1410	1.46		1353	5.73
	1945	5.75		2031	0.63
<b>20</b> WE	0208	1.56	<b>27</b> WE	0249	6.73
	0802	6.62		0927	1.91
	1511	1.24		1439	5.81
	2113	5.79		2110	0.61
<b>21</b> TH	0321	1.89	<b>28</b> TH	0327	6.73
	0903	6.40		1009	1.81
	1614	0.98		1519	5.90
	2234	6.05		2148	0.63

**DEENDAYAL PORT (KANDLA) YEAR 2023**  
**(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
<b>29</b> FR	0405	6.70	<b>30</b> SA	0439	6.67
	1049	1.76		1125	1.73
	1555	5.96		1628	5.92
	2224	0.75		2254	0.98
<b>31</b> SU	0510	6.61	<b>31</b> SU	0510	6.61
	1156	1.75		1156	1.75
	1701	5.82		1701	5.82
	2323	1.28		2323	1.28

Note	Important Numbers

## KANDLA (GULF OF KACHCHH) TIDE TABLES

DIAGRAM  
(NOT TO SCALE)

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

