

KARNAPHULI RIVER

TIDE TABLES

2020



Department of Hydrography
CHITTAGONG PORT AUTHORITY
www.cpa.gov.bd



CHITTAGONG PORT AUTHORITY

Country moves with us

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KARNAPHULI RIVER

Handbook of Tide Tables

2020



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Tide Tables 2020

KARNAPHULI RIVER

Hand Book of Tide Tables at
Kalurghat, Sadarghat, Khal No-10 & Khal No-18

Prediction datum is the CD (ISLWL)

Time zone is BST (+6 GMT)

- Full Moon
- New Moon

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CHITTAGONG PORT AUTHORITY

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About Chittagong Port Authority

The Chittagong Port is the principal seaport of Bangladesh handling about 92% of import-export trade of the country. It provides a major gateway for the country's trade with the outside world. As such its importance in the national economy is paramount. The Chittagong Port Authority (CPA) is a basic services provider. Its Objectives focuses mainly on providing necessary services and facilities to the port users efficiently & effectively at competitive price.



Historical Background

The history of CPA can be traced to the 4th century BC. During the 9th-15th century AD, Chittagong was known as “SHETGANG” to early European mariners. In the 16th century, Portuguese sailors took great interest in the locality around Chittagong which was then popularly known as ‘Porte Grande’. The port was established at its present location in 1887. By 1910; four jetties were constructed to handle 0.5 million tons of cargo annually. Since then the port has grown gradually to its present shape.

Location

Chittagong port is situated in the estuary of the river Karnaphuli; its main berths being around eight nautical inshore from the port’s outer anchorage.

Administration

The Chittagong Port Authority was established through promulgation of the Chittagong Port Ordinance 1976. The CPA now comprises of the Chairman and four other Members. The Chairman is appointed by the Government and also is the Chief Executive of the port. The Port operates under the administrative control of the Ministry of Shipping of the Government of the People’s Republic of Bangladesh.

Commitments

Our commitments are to help sustain the economy of Bangladesh and support the quality of life for communities along the river by:

- Keeping the river safe for all users-from the largest ships to the smallest rowing boats.
- Realizing the river’s sustainable development potential-principally making sure freight movements can switch from road to water.
- Protecting the river’s environment-making sure that developments in the river are properly managed.

Port Limit

- Upper Limit- The upper port limit extended up to 2.5 km of Halda & Karnaphuli River and
- Lower Limit- The lower limit extended up to 13 km radius drawn from Patenga Beacon to seaward.

Karnaphuli River

Karnaphuli, the largest and most important river in Chittagong and the Chittagong Hill Tracts. It is a 667 meters wide river in the south-eastern part of Bangladesh. Originating from the Lushai hills in Mizoram, India, it flows 270 km southwest through Chittagong Hill Tracts and Chittagong into the Bay of Bengal.

There are three bars in the river, one at the mouth of Karnaphuli River called the outer bar, second the inner bar at 2.26 km from the outer bar and third is the Gupta bar at 8.58 km from the outer bar. The least depth at outer bar is 5.3 meters (approx) from the chart datum (CD) i.e. from Indian Spring Low Water Level (ISLWL). The Least depth at the inner and Gupta bar are 7.2 meters, 6.9 meters respectively from Indian Spring Low Water Level (ISLWL).

Anchorage Area

The anchorage is divided into three areas 'A' 'B' & 'C'.

- Anchorage "A" is formed by extending 2 (Two) lines up to port limit, one (1st) having bearing $337^{\circ}45'$ and the other (2nd) $310^{\circ}30'$ from the point having lat $22^{\circ}12'30''$ N and long $91^{\circ}47'00''$ E.
- Anchorage "B" is formed in between 4th and 5th line having bearing 234° extended up to port limit from the previous point.
- Anchorage "C" is between 4th and 5th line having bearing $23^{\circ}40'$ & 157° respectively, extended up to Port limit from a point of lat $22^{\circ}12'00''$ N and long $91^{\circ}47'12''$ E.

The space between 3rd and 4th lines is prohibited anchorage.

- “A” Anchorage is for vessels over 9.2 m draught.
- “B” Anchorage is for vessels entering the port within 24 hours.
- “C” Anchorage is for vessels lightering and other vessels not scheduled to enter the port within 24 hours.

The holding ground at the anchorage is soft mud which is considered poor holding ground. Due to very strong current of up to 6 knots dragging of anchor by vessels is common at Chittagong outer anchorage. There is no limit imposed by Chittagong Port Authority in terms of number of vessels that can anchor within the limited area or the maximum draft of vessels that may be allowed. To improve the safety at Chittagong outer anchorage the port authority may need to consider imposing certain controls relating to maximum draft and number of vessels in the anchorage.

Important Telephone Number

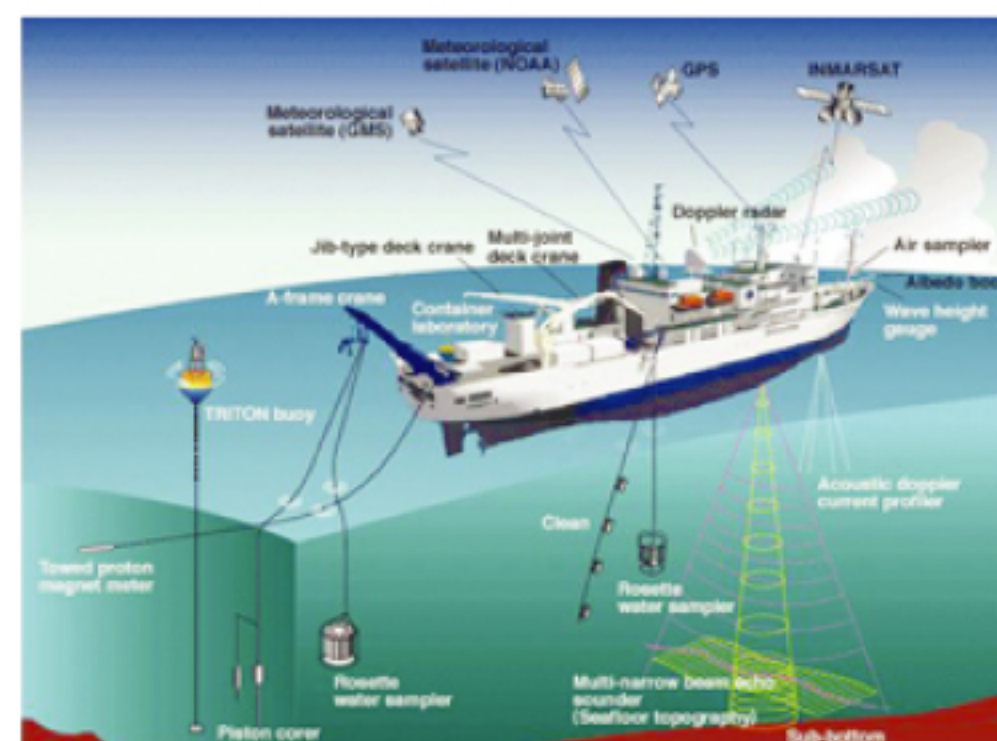
- | | |
|-----------------------------|-----------------|
| • Chairman | +88 031 2510870 |
| • Member (Admin & Planning) | +88 031 2526004 |
| • Member (Finance) | +88 031 2510871 |
| • Member (Engineering) | +88 031 2510872 |
| • Member (Harbour & Marine) | +88 031 2510873 |
| • Deputy Conservator | +88 031 2510842 |
| • Director (Security) | +88 031 2510884 |
| • Chief Hydrographer | +88 031 2510840 |
| • Secretary | +88 031 2510869 |
| • Chief Medical Officer | +88 031 2510876 |

CHITTAGONG PORT AUTHORITY

HYDROGRAPHIC SERVICE

With a statutory responsibility to survey within port limit, CPA has the most sophisticated in-house survey capability. Take advantage of a service that offers:

- **Value-** low mobilization or weather downtime costs.
- **Experience-** time served surveyors and local crews.
- **Quality-** purpose built craft and latest equipment, including side scan sonar.
- **Response-** most surveys completed within a week of receiving instruction.



Digital Hydrographic Survey

Services include Bathymetric charting, dredging & dredging monitoring, volume computations, sampling and analysis, wreck detection & measurement of sound velocity including current observation in the port limit area.

Hydrographic Department

Chititagong Port Authority has its own Hydrographic Department comprising 07 in number survey vessels, one trailing suction hopper dredger (Capacity-2500 cum) and 298 manpower's. The department has in-house specialist in hydrographic, oceanographic, cartographic and GIS.

Department is headed by Chief Hydrographer including 2 Senior Hydrographer and 3 other Hydrographers in different disciplines. With the modern equipments the department maintains IHO (SP-44) standard survey. The main responsibilities of this department are:

- To carryout bathymetric survey and production of bathymetric data sheet for onward distribution to the pilots for safe navigation in the channel. Apprise the management about the up-to-date information to its entire port limits.

- To identify wrecks/underwater obstructions in the channel and apprise the same to the concerns.
- To indentify sound velocity and current information within port limit area.
- Carryout capital and maintenance dredging in the port limit area to maintain the safe depth for navigation. Provide support to all stakeholders (various companies) at both bank of the river.
- Maintain, collect, preserve & analysis of tidal data from five tide gauges. Prediction and publish pocket Tide Tables for the users. Assist national agencies/organizations with relevant data for analysis or research purpose with the approval of competent Authority.

Information about navigation and hydrographic matters can be found of the CPA website at www.cpa.gov.bd

Trailing suction hopper dredger-MD KHANAK

CPA has its own dredger to maintain the channel depth as per the requierment. MD KHANAK is one of the largest dredger in Bangladesh. Dredger is also deployed to other places for dredging activities as per the requirement of the country. Dredger is controlled by hydrographic department.



General Properties

IMO number: 8900206

Call Sign: S2TB

Vessel type: TSHD

Flag: BD

Owner: CPA

Manager: CPA

Built in: 1991

Physical Properties

Length (OA): 83.5 m

Length (BP): 80 m

Width: 16.5 m

Depth: 6.75 M

Draft (loaded): 5.5 M

Numbr of engines: 2

Engine specs: Wartsila-8L26L-4Str-8cyl-26.00x32.00-850 rpm

Speed (loaded): 12 knts

Total power: 3220 kW

Hopper volume: 2500 m³

Dredging depth: 15 m

Sucition pipe diameter: 0.55 m

Number of dredging pipes: 2

Shah Amanat Bridge

Shah Amanat Bridge It is the first cable-stayed type bridge over the Karnaphuli river in the country. The length of the four-lane bridge is 950 m and its breadth is 24.40 m. The clearance of which is 16.10 m from high water level. It was constructed during the year 2006-2010 to enhance the connectivity of commercial capital Chittagong to south Chittagong as well as Cox'sbazar, the tourism city of Bangladesh.



Kalurghat Bridge

An old bridge, once the only link between the southern region of Chittagong division on the bank of the river Karnaphuli with the rest of the country. This 239 m long bridge was installed as a simple rail bridge of steel structure between Janalihat and Gomdandi railway stations in 1930. The bridge was commissioned for operation of trains in Chittagong-Dohazari section in the year 1931. Thirty-one years after its inauguration, considering the suffering of the people it was modified with decking and carpeting and turned into a rail and road-bridge in 1962. The clearance of which is 5.19 m from high water level.



IMPORTANT NOTES

The chart datum of Karnaphuli River at Sadarghat is 6.56 m below the Bench Mark 'A' in front of old CPA Building at Sadarghat.

The prediction has been Predicted from the Geo Tide 3.0.18 software. This book is meant for departmental use & not for sale.

The total predicted depth in the channel is the sum of the charted depth & the height of tide.

The predictions in this booklet do not include exceptional changes due to meteorological disturbances.

All communications relating to this publication should be made to the

Chief Hydrographer

Hydrography Department

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Annex Building (3rd Floor)

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PHASES OF THE MOON 2020
(DAY: HOUR: MINUTE)

MONTH	NEW MOON	FULL MOON
January	25:03:42	11:01:21
Februaty	23:21:32	09:13:33
March	24:15:28	09:23:48
April	23:08:26	08:08:35
May	22:23:39	07:16:45
June	21:12:41	06:01:12
July	20:23:33	05:10:44
August	19:08:41	03:21:59
September	17:17:00	02:11:22
October	17:01:31	02:03:05
		31:20:49
November	15:11:07	30:15:30
December	14:22:17	30:09:28

LIST OF CPA TIDE GAUGE STATION

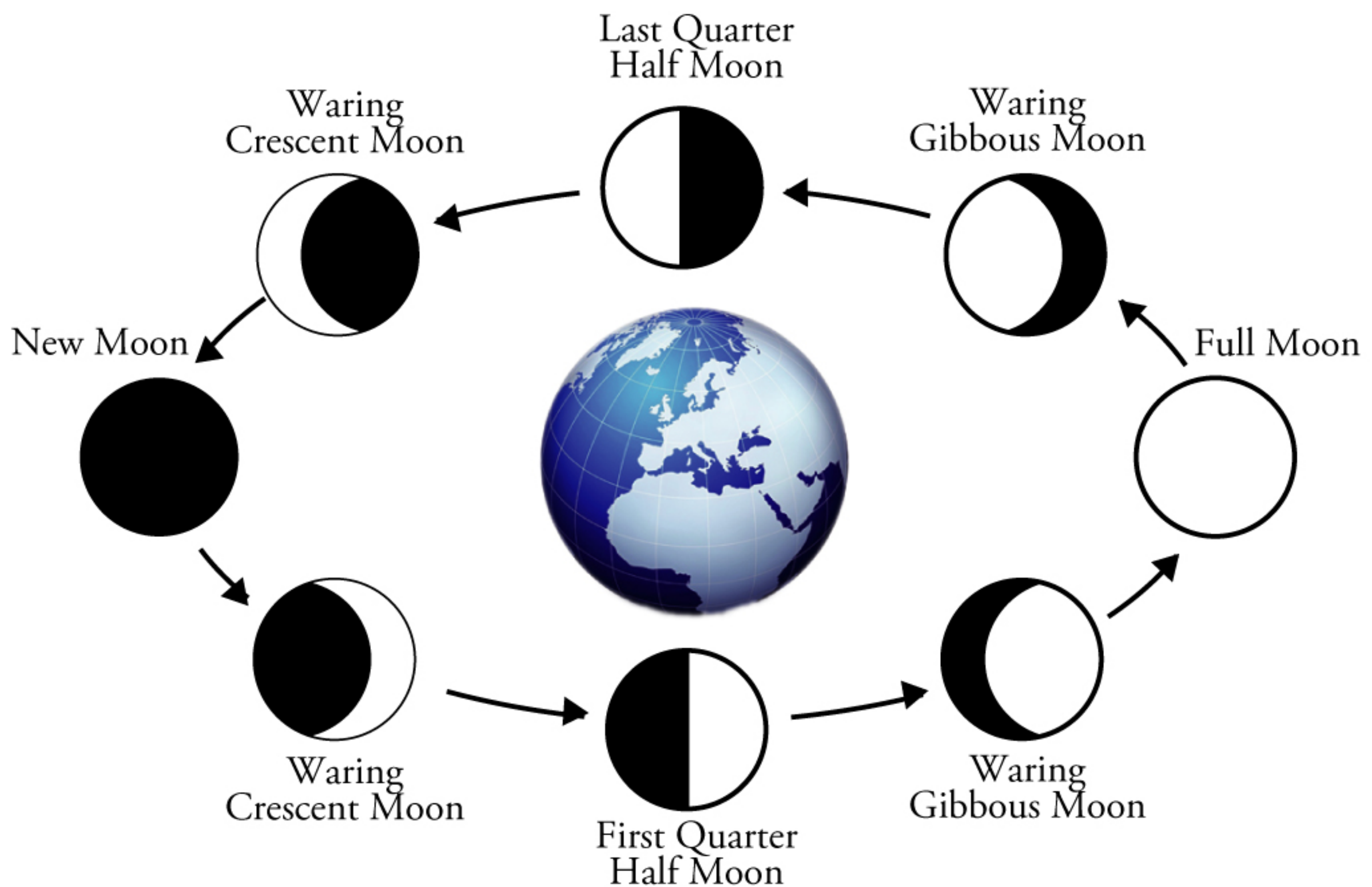
SL	TIDE GAUGE STATION (AUTO)	POSITION(AP.)
01	KHAL NO- 18	Lat:22°13'33"N Long:91°48'18"E
02	KHAL NO- 10	Lat:22°16'1.5"N Long:91°49'27"E
03	KALURGHAT	Lat:22°23'51"N Long:91°53'17"E
04	KAPTAI	Lat:22'29'37.5"N Long:92'11'34.5"E
05	SADARGHAT	Lat:22°19'27"N Long:91°50'0.5"E
06	DOCK OFFICE	Lat:22°18'06.8"N Long:91°47'47.7"E

PHASES OF THE MOON 2020

(DAY: HOUR: MINUTE)

MONTH	FIRST QTR.	LAST QTR.
JANUARY	03:10:45	17:18:58
FEBRUARY	02:07:42	16:04:17
MARCH	03:01:57	16:15:34
APRIL	01:16:21	15:04:56
MAY	01:02:38	14:20:03
	30:09:30	
JUNE	28:14:16	13:12:24
JULY	27:18:32	13:05:29
AUGUST	25:23:58	11:22:45
SEPTEMBER	24:07:55	10:15:26
OCTOBER	23:19:23	10:06:39
NOVEMBER	22:10:45	08:19:46
DECEMBER	22:05:41	08:06:37

PHASES OF THE MOON



HIGHEST & LOWEST TIDE OF 2019 IN SELECTED TIDE STATION

KALURGHAT AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
4.75	15:10	03/08/19	-0.55	10:00	23/03/19
Online Live Data: http://stormcentral.waterlog.com/public/cpahydrography2					



SADARGHAT AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
5.13	15:30	04/08/19	-0.22	09:00	22/03/19
Online Live Data: http://stormcentral.waterlog.com/public/cpahydrography5					



KHAL NO-10 AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
5.65	14:30	03/08/19	-0.15	08:20	22/03/19

KHAL NO-18 AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
6.15	14:00	03/08/19	-0.12	08:35	23/03/19

MAX CURRENT VELOCITY OPPOSITE

KHAL NO-10 IS AS UNDER

Spring tides (S.W Monsoon) 4.5 to 5.5 kn

Neap tides (S.W Monsoon) 2.5 to 3.5 kn

Spring tides (Winter Months) upto 3 kn

Neap tides (Winter Months) upto 2 kn

Freshet Ebbs upto 8 knots

TIDAL RANGES

The tides are semi diurnal with prominent diurnal effect

At Patenga Khal no-18	1.5m - 5.5m
At Khal no-10	1.5m - 4.8m
At Sadarghat	1.2m - 4.2m
At Kalurghat	1.0m - 4.1m

01 | JANUARY | 2020

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0515	3.04	0458	3.40	0422	3.68	0407	3.95	1 WE
	1203	-0.03	1128	0.24	1056	0.45	1037	0.72	
	1745	2.71	1722	3.08	1658	3.31	1639	3.61	
			2340	0.40	2301	0.78	2246	1.01	
2 TH	0004	0.22	0540	3.23	0507	3.48	0452	3.76	2 TH
	0556	2.85	1207	0.31	1135	0.54	1118	0.84	
	1240	-0.02	1812	3.01	1755	3.23	1734	3.53	
	1831	2.63			2347	0.96	2333	1.17	
3 FR	0047	0.32	0026	0.50	0603	3.26	0548	3.54	3 FR
	0642	2.62	0628	3.01	1221	0.67	1207	1.00	
	1322	0.04	1252	0.42	1903	3.20	1841	3.48	
	1934	2.57	1915	2.95					
4 SA	0142	0.44	0123	0.62	0058	1.11	0037	1.32	4 SA
	0741	2.41	0729	2.80	0713	3.07	0659	3.35	
	1418	0.12	1352	0.53	1335	0.79	1319	1.12	
	2101	2.61	2027	2.97	2011	3.25	1949	3.51	
5 SU	0329	0.46	0248	0.66	0235	1.08	0209	1.34	5 SU
	0911	2.29	0842	2.68	0822	2.96	0809	3.25	
	1545	0.14	1515	0.55	1450	0.79	1435	1.13	
	2209	2.76	2136	3.08	2118	3.39	2056	3.63	
6 MO	0443	0.30	0401	0.58	0338	0.94	0318	1.22	6 MO
	1024	2.33	0956	2.69	0932	2.97	0920	3.27	
	1654	0.05	1621	0.45	1550	0.72	1536	1.03	
	2307	2.94	2238	3.25	2218	3.57	2200	3.80	
7 TU	0544	0.13	0504	0.44	0440	0.77	0420	1.04	7 TU
	1126	2.44	1104	2.83	1039	3.08	1025	3.38	
	1749	-0.04	1716	0.33	1645	0.61	1630	0.90	
	2357	3.11	2330	3.42	2306	3.75	2250	3.98	
8 WE	0640	0.00	0601	0.32	0536	0.60	0514	0.87	8 WE
	1217	2.59	1155	2.99	1130	3.22	1113	3.53	
	1838	-0.11	1805	0.23	1734	0.48	1718	0.77	
					2346	3.90	2330	4.13	

01 | JANUARY | 2020

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0038	3.23	0013	3.55	0624	0.47	0600	0.73	9 TH
	0730	-0.05	0650	0.24	1210	3.37	1150	3.68	
	1259	2.73	1236	3.13	1818	0.36	1802	0.64	
	1922	-0.15	1850	0.15					
10 FR	0115	3.33	0051	3.64	0021	4.03	0005	4.26	10 FR
	0815	-0.06	0736	0.19	0707	0.37	0643	0.60	
	1336	2.86	1312	3.24	1245	3.51	1225	3.82	
	2005	-0.18	1934	0.09	1902	0.24	1845	0.52	
11 SA ○	0152	3.42	0127	3.72	0056	4.13	0040	4.37	11 SA ○
	0859	-0.07	0819	0.15	0749	0.28	0725	0.49	
	1414	2.98	1348	3.33	1321	3.62	1302	3.94	
	2049	-0.18	2019	0.06	1946	0.17	1929	0.43	
12 SU	0230	3.48	0205	3.77	0134	4.18	0118	4.44	12 SU
	0943	-0.07	0902	0.11	0832	0.22	0808	0.41	
	1456	3.04	1426	3.38	1401	3.67	1342	4.01	
	2134	-0.15	2105	0.06	2031	0.16	2013	0.41	
13 MO	0312	3.48	0246	3.79	0215	4.16	0158	4.46	13 MO
	1026	-0.07	0944	0.09	0915	0.19	0850	0.37	
	1541	3.05	1509	3.38	1443	3.66	1424	4.01	
	2221	-0.09	2151	0.09	2116	0.21	2058	0.43	
14 TU	0357	3.42	0330	3.74	0259	4.09	0239	4.41	14 TU
	1108	-0.08	1025	0.09	0957	0.17	0932	0.35	
	1627	3.02	1555	3.35	1528	3.63	1508	3.96	
	2307	-0.02	2237	0.13	2202	0.29	2142	0.48	
15 WE	0442	3.31	0417	3.66	0345	3.97	0324	4.31	15 WE
	1151	-0.10	1108	0.09	1040	0.17	1014	0.36	
	1714	2.97	1644	3.32	1617	3.59	1557	3.90	
	2356	0.05	2326	0.17	2250	0.40	2228	0.57	
16 TH	0530	3.15	0507	3.53	0435	3.81	0413	4.15	16 TH
	1236	-0.13	1153	0.09	1125	0.20	1100	0.41	
	1806	2.93	1741	3.29	1718	3.55	1655	3.84	
					2344	0.53	2320	0.68	

01 | JANUARY | 2020

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0051	0.13	0018	0.23	0537	3.61	0513	3.92	17 FR
	0623	2.96	0604	3.34	1218	0.27	1152	0.51	
	1327	-0.13	1244	0.14	1835	3.53	1808	3.79	
	1914	2.88	1853	3.26					
18 SA	0159	0.19	0121	0.30	0053	0.66	0024	0.83	18 SA
	0733	2.72	0715	3.12	0654	3.38	0629	3.66	
	1429	-0.09	1346	0.23	1322	0.39	1256	0.66	
	2040	2.87	2010	3.26	1948	3.53	1925	3.77	
19 SU	0315	0.21	0235	0.36	0210	0.72	0142	0.93	19 SU
	0859	2.53	0833	2.93	0808	3.17	0749	3.45	
	1538	-0.05	1459	0.30	1433	0.50	1410	0.79	
	2155	2.92	2123	3.28	2058	3.55	2039	3.79	
20 MO	0438	0.16	0355	0.37	0334	0.70	0308	0.93	20 MO
	1018	2.43	0955	2.83	0926	3.05	0912	3.34	
	1650	-0.03	1615	0.31	1549	0.55	1528	0.83	
	2303	2.99	2233	3.33	2208	3.61	2153	3.87	
21 TU	0600	0.03	0517	0.29	0455	0.56	0431	0.80	21 TU
	1135	2.45	1114	2.87	1050	3.08	1032	3.39	
	1800	-0.05	1725	0.26	1659	0.50	1640	0.77	
			2334	3.41	2310	3.71	2255	4.00	
22 WE	0001	3.08	0622	0.17	0554	0.41	0532	0.63	22 WE
	0703	-0.11	1214	2.98	1152	3.20	1128	3.52	
	1235	2.55	1823	0.18	1754	0.41	1737	0.66	
	1857	-0.09			2358	3.81	2340	4.13	
23 TH	0048	3.16	0024	3.49	0641	0.31	0619	0.51	23 TH
	0752	-0.18	0712	0.10	1235	3.32	1209	3.64	
	1319	2.66	1257	3.08	1839	0.33	1822	0.55	
	1942	-0.12	1911	0.12					
24 FR	0126	3.23	0104	3.56	0036	3.90	0017	4.22	24 FR
	0833	-0.17	0753	0.08	0722	0.26	0659	0.45	
	1355	2.77	1333	3.16	1309	3.42	1243	3.74	
	2020	-0.13	1951	0.10	1918	0.28	1902	0.49	

01 | JANUARY | 2020

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0159	3.28	0140	3.61	0110	3.95	0051	4.28	25 SA
	0908	-0.12	0829	0.09	0758	0.26	0734	0.43	
	1427	2.84	1405	3.22	1339	3.48	1315	3.81	
	2053	-0.12	2026	0.11	1953	0.27	1937	0.48	
26 SU	0231	3.30	0214	3.63	0142	3.96	0123	4.29	26 SU
	0938	-0.07	0859	0.12	0830	0.28	0806	0.44	
	1457	2.89	1436	3.23	1408	3.51	1346	3.84	
	2123	-0.09	2058	0.13	2022	0.29	2009	0.51	
27 MO	0303	3.29	0247	3.62	0212	3.93	0153	4.27	27 MO
	1004	-0.06	0926	0.12	0856	0.28	0835	0.45	
	1527	2.91	1506	3.23	1437	3.52	1415	3.84	
	2156	-0.06	2128	0.15	2051	0.31	2038	0.55	
28 TU	0336	3.25	0320	3.60	0243	3.89	0224	4.22	28 TU
	1031	-0.09	0953	0.09	0922	0.25	0902	0.43	
	1559	2.92	1537	3.24	1506	3.52	1446	3.84	
	2229	-0.04	2158	0.15	2123	0.33	2106	0.58	
29 WE	0410	3.18	0353	3.55	0316	3.82	0256	4.16	29 WE
	1100	-0.14	1022	0.05	0950	0.21	0930	0.42	
	1632	2.90	1609	3.23	1537	3.51	1519	3.83	
	2304	-0.03	2232	0.14	2156	0.37	2137	0.61	
30 TH	0444	3.06	0426	3.46	0350	3.72	0330	4.06	30 TH
	1130	-0.19	1052	0.03	1021	0.20	1000	0.43	
	1707	2.86	1643	3.22	1612	3.49	1555	3.80	
	2338	0.00	2307	0.16	2231	0.44	2210	0.66	
31 FR	0519	2.91	0500	3.32	0425	3.58	0406	3.91	31 FR
	1200	-0.22	1124	0.05	1052	0.23	1032	0.50	
	1743	2.80	1719	3.18	1650	3.43	1634	3.74	
			2344	0.22	2308	0.56	2247	0.78	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SA	0014	0.05	0536	3.13	0504	3.38	0445	3.70	1 SA
	0557	2.72	1158	0.13	1126	0.33	1107	0.64	
	1233	-0.21	1801	3.11	1734	3.35	1719	3.64	
	1824	2.73			2350	0.73	2330	0.97	
2 SU	0055	0.14	0026	0.34	0550	3.14	0533	3.43	2 SU
	0642	2.50	0620	2.89	1208	0.50	1151	0.85	
	1313	-0.13	1239	0.27	1838	3.23	1820	3.51	
	1916	2.62	1856	3.00					
3 MO	0150	0.28	0121	0.50	0052	0.93	0030	1.21	3 MO
	0739	2.25	0719	2.63	0700	2.86	0645	3.14	
	1408	0.02	1337	0.46	1306	0.73	1252	1.09	
	2049	2.54	2020	2.92	2007	3.17	1945	3.44	
4 TU	0337	0.35	0253	0.62	0242	0.99	0217	1.33	4 TU
	0914	2.08	0848	2.47	0830	2.70	0814	2.99	
	1537	0.15	1512	0.57	1450	0.86	1432	1.21	
	2221	2.65	2146	2.99	2128	3.27	2105	3.51	
5 WE	0503	0.21	0421	0.54	0358	0.87	0338	1.21	5 WE
	1046	2.15	1022	2.54	1000	2.75	0941	3.06	
	1710	0.08	1637	0.47	1607	0.77	1550	1.11	
	2329	2.86	2259	3.18	2237	3.48	2217	3.73	
6 TH	0614	0.03	0534	0.38	0513	0.67	0449	0.99	6 TH
	1200	2.37	1134	2.78	1112	2.99	1049	3.30	
	1816	-0.05	1742	0.32	1714	0.60	1654	0.92	
			2353	3.39	2327	3.71	2309	3.98	
7 FR	0022	3.08	0634	0.23	0610	0.46	0545	0.75	7 FR
	0713	-0.10	1222	3.02	1158	3.25	1133	3.57	
	1250	2.61	1837	0.17	1809	0.40	1749	0.69	
	1911	-0.14					2348	4.22	
8 SA	0103	3.25	0037	3.57	0007	3.92	0630	0.53	8 SA
	0803	-0.16	0723	0.11	0655	0.28	1211	3.83	
	1329	2.81	1301	3.22	1234	3.48	1836	0.48	
	2000	-0.19	1926	0.07	1856	0.22			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SU	0140 0847 1405 ○ 2046	3.38 -0.18 2.99 -0.20	0114 0806 1337 2012	3.71 0.04 3.37 0.00	0043 0737 1309 1941	4.08 0.15 3.66 0.10	0025 0712 1248 1920	4.42 0.35 4.04 0.32	9 SU
10 MO	0216 0930 1442 2132	3.47 -0.18 3.12 -0.18	0151 0848 1413 2057	3.81 -0.02 3.48 -0.03	0119 0818 1345 2025	4.18 0.05 3.79 0.05	0102 0753 1326 2003	4.56 0.21 4.17 0.23	10 MO
11 TU	0255 1011 1522 2217	3.50 -0.18 3.20 -0.14	0231 0928 1453 2141	3.86 -0.05 3.53 -0.03	0158 0859 1424 2108	4.20 -0.01 3.85 0.06	0141 0833 1407 2046	4.62 0.13 4.23 0.21	11 TU
12 WE	0337 1051 1604 2301	3.47 -0.19 3.22 -0.09	0313 1007 1535 2225	3.84 -0.06 3.55 0.00	0240 0938 1506 2151	4.15 -0.03 3.86 0.10	0221 0912 1449 2127	4.59 0.09 4.23 0.25	12 WE
13 TH	0420 1130 1647 2345	3.37 -0.21 3.21 -0.05	0357 1046 1621 2308	3.76 -0.07 3.54 0.03	0324 1017 1551 2234	4.04 -0.03 3.85 0.18	0303 0951 1533 2209	4.47 0.10 4.20 0.32	13 TH
14 FR	0505 1210 1733	3.23 -0.22 3.16	0444 1126 1712 2354	3.63 -0.05 3.51 0.09	0411 1057 1642 2321	3.88 0.02 3.80 0.30	0349 1032 1623 2255	4.28 0.18 4.12 0.46	14 FR
15 SA	0033 0554 1253 1829	0.00 3.01 -0.19 3.03	0536 1211 1813	3.42 0.02 3.41	0506 1142 1749	3.65 0.16 3.67	0442 1118 1724 2352	4.00 0.36 3.97 0.69	15 SA
16 SU	0130 0656 1348 1955	0.09 2.71 -0.08 2.86	0048 0640 1306 1930	0.21 3.12 0.20 3.26	0020 0618 1240 1909	0.50 3.34 0.41 3.51	0551 1216 1843	3.63 0.65 3.77	16 SU

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 MO	0241	0.18	0158	0.37	0137	0.69	0109	0.95	17 MO
	0825	2.40	0759	2.81	0737	3.02	0717	3.27	
	1500	0.06	1421	0.40	1359	0.66	1334	0.95	
	2122	2.77	2051	3.14	2026	3.38	2008	3.63	
18 TU	0411	0.20	0328	0.46	0314	0.76	0250	1.05	18 TU
	0956	2.23	0935	2.63	0910	2.82	0859	3.10	
	1626	0.13	1552	0.49	1531	0.76	1512	1.07	
	2242	2.79	2215	3.14	2154	3.38	2140	3.65	
19 WE	0555	0.00	0511	0.34	0450	0.58	0429	0.87	19 WE
	1134	2.30	1113	2.73	1059	2.94	1039	3.24	
	1756	0.04	1721	0.39	1656	0.65	1639	0.95	
	2351	2.91	2328	3.25	2311	3.53	2255	3.83	
20 TH	0657	-0.24	0618	0.12	0550	0.35	0530	0.63	20 TH
	1236	2.50	1215	2.94	1156	3.16	1134	3.45	
	1857	-0.09	1822	0.22	1752	0.48	1736	0.75	
					2359	3.69	2340	4.01	
21 FR	0040	3.05	0021	3.39	0634	0.21	0613	0.47	21 FR
	0743	-0.35	0704	-0.01	1234	3.33	1209	3.62	
	1317	2.67	1256	3.11	1835	0.34	1818	0.59	
	1941	-0.15	1907	0.11					
22 SA	0116	3.15	0059	3.50	0033	3.80	0011	4.14	22 SA
	0820	-0.32	0741	-0.03	0710	0.16	0647	0.39	
	1348	2.80	1326	3.22	1302	3.46	1235	3.77	
	2016	-0.16	1944	0.06	1911	0.26	1853	0.48	
23 SU	0146	3.24	0130	3.59	0059	3.89	0038	4.25	23 SU
	0851	-0.24	0812	-0.02	0741	0.15	0717	0.35	
	1414	2.92	1352	3.32	1325	3.58	1300	3.91	
	2045	-0.14	2015	0.06	1941	0.22	1923	0.43	
24 MO	0215	3.30	0159	3.67	0125	3.95	0105	4.33	24 MO
	0916	-0.17	0838	0.00	0807	0.15	0744	0.31	
	1439	3.02	1417	3.39	1348	3.67	1326	4.01	
	2110	-0.13	2042	0.06	2007	0.20	1950	0.41	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TU	0244	3.34	0227	3.71	0152	3.97	0132	4.37	25 TU
	0938	-0.16	0902	-0.01	0830	0.13	0808	0.27	
	1505	3.10	1443	3.43	1412	3.73	1352	4.06	
	2139	-0.13	2108	0.06	2033	0.18	2016	0.40	
26 WE	0314	3.33	0256	3.70	0220	3.95	0159	4.35	26 WE
	1004	-0.20	0926	-0.04	0854	0.09	0833	0.23	
	1533	3.14	1510	3.45	1438	3.76	1418	4.09	
	2211	-0.13	2136	0.04	2102	0.17	2042	0.40	
27 TH	0345	3.27	0325	3.66	0250	3.90	0227	4.30	27 TH
	1032	-0.24	0953	-0.07	0921	0.06	0900	0.22	
	1604	3.13	1538	3.45	1506	3.76	1447	4.08	
	2244	-0.12	2207	0.03	2133	0.19	2111	0.41	
28 FR	0416	3.15	0354	3.56	0320	3.80	0257	4.21	28 FR
	1100	-0.27	1021	-0.09	0949	0.05	0927	0.23	
	1635	3.08	1608	3.44	1537	3.75	1517	4.06	
	2316	-0.10	2239	0.03	2205	0.23	2141	0.45	
29 SA	0447	3.00	0424	3.44	0352	3.68	0328	4.07	29 SA
	1128	-0.31	1050	-0.09	1017	0.06	0955	0.28	
	1706	3.03	1640	3.42	1610	3.71	1552	4.02	
	2348	-0.08	2312	0.07	2237	0.31	2213	0.54	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SU	0522	2.84	0458	3.29	0427	3.52	0405	3.88	1 SU
	1157	-0.33	1121	-0.05	1047	0.13	1026	0.41	
	1743	2.96	1718	3.36	1649	3.63	1631	3.93	
			2349	0.16	2314	0.46	2249	0.73	
2 MO	0023	-0.03	0538	3.07	0508	3.29	0447	3.61	2 MO
	0603	2.63	1157	0.08	1124	0.31	1104	0.64	
	1234	-0.27	1805	3.23	1736	3.47	1718	3.76	
	1829	2.82					2339	1.02	
3 TU	0110	0.11	0036	0.34	0002	0.71	0543	3.26	3 TU
	0656	2.37	0630	2.78	0600	2.98	1157	0.97	
	1324	-0.08	1248	0.33	1215	0.62	1828	3.53	
	1934	2.63	1912	3.03	1846	3.24			
4 WE	0233	0.29	0150	0.58	0137	0.97	0103	1.32	4 WE
	0815	2.10	0751	2.51	0733	2.68	0717	2.99	
	1438	0.17	1409	0.61	1340	0.94	1321	1.29	
	2133	2.58	2055	2.94	2040	3.18	2015	3.46	
5 TH	0420	0.26	0338	0.63	0320	0.93	0301	1.30	5 TH
	1012	2.12	0944	2.52	0928	2.71	0903	3.03	
	1631	0.21	1601	0.62	1534	0.92	1516	1.27	
	2300	2.81	2227	3.13	2206	3.40	2144	3.68	
6 FR	0548	0.07	0508	0.46	0451	0.70	0426	1.03	6 FR
	1142	2.43	1111	2.82	1051	3.04	1027	3.37	
	1757	0.04	1722	0.43	1659	0.70	1637	1.00	
			2331	3.40	2305	3.70	2246	4.02	
7 SA	0000	3.09	0614	0.23	0551	0.41	0526	0.70	7 SA
	0653	-0.12	1204	3.16	1140	3.39	1116	3.75	
	1235	2.75	1824	0.22	1757	0.43	1736	0.68	
	1859	-0.11			2348	3.97	2329	4.33	
8 SU	0045	3.31	0017	3.64	0636	0.19	0611	0.42	8 SU
	0743	-0.22	0704	0.07	1216	3.69	1153	4.09	
	1314	3.02	1243	3.42	1844	0.21	1822	0.40	
	1950	-0.18	1914	0.07					

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 MO	0122	3.47	0055	3.82	0024	4.17	0006	4.59	9 MO
	0827	-0.24	0746	-0.03	0716	0.03	0651	0.19	
	1349	3.22	1318	3.61	1249	3.93	1229	4.36	
	○ 2037	-0.20	1959	-0.02	1928	0.06	1905	0.20	○
10 TU	0158	3.58	0132	3.95	0100	4.29	0043	4.76	10 TU
	0909	-0.24	0826	-0.08	0756	-0.08	0730	0.04	
	1423	3.39	1352	3.76	1324	4.11	1307	4.54	
	2121	-0.18	2043	-0.06	2010	-0.02	1947	0.09	
11 WE	0235	3.63	0210	4.01	0138	4.33	0121	4.84	11 WE
	0949	-0.24	0905	-0.12	0835	-0.13	0809	-0.05	
	1500	3.50	1430	3.84	1402	4.21	1346	4.63	
	2205	-0.16	2125	-0.07	2052	-0.04	2028	0.06	
12 TH	0316	3.60	0252	4.00	0219	4.29	0202	4.80	12 TH
	1028	-0.24	0943	-0.14	0913	-0.15	0848	-0.08	
	1541	3.55	1512	3.87	1443	4.24	1427	4.64	
	2248	-0.14	2207	-0.05	2134	-0.01	2108	0.08	
13 FR	0400	3.52	0336	3.92	0303	4.18	0244	4.67	13 FR
	1106	-0.26	1021	-0.14	0951	-0.12	0926	-0.04	
	1623	3.53	1557	3.86	1526	4.22	1510	4.59	
	2330	-0.12	2248	-0.02	2215	0.05	2149	0.16	
14 SA	0445	3.37	0422	3.77	0350	4.02	0329	4.46	14 SA
	1143	-0.26	1100	-0.10	1029	-0.03	1005	0.09	
	1709	3.45	1645	3.79	1614	4.13	1557	4.47	
			2331	0.05	2259	0.18	2232	0.33	
15 SU	0014	-0.08	0512	3.54	0443	3.77	0420	4.15	15 SU
	0533	3.14	1142	0.02	1110	0.16	1048	0.34	
	1223	-0.19	1741	3.63	1712	3.92	1652	4.25	
	1801	3.27			2351	0.40	2323	0.62	
16 MO	0104	0.02	0020	0.20	0548	3.42	0522	3.73	16 MO
	0632	2.81	0611	3.21	1203	0.50	1141	0.73	
	1312	-0.01	1233	0.26	1831	3.63	1802	3.92	
	1913	3.00	1852	3.38					

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TU	0209	0.16	0123	0.42	0103	0.68	0036	0.97	17 TU
	0755	2.44	0728	2.84	0709	3.04	0646	3.30	
	1424	0.23	1345	0.56	1324	0.86	1301	1.15	
	2046	2.78	2016	3.15	1953	3.38	1931	3.63	
18 WE	0334	0.26	0252	0.59	0243	0.85	0222	1.17	18 WE
	0933	2.24	0913	2.63	0854	2.83	0841	3.11	
	1600	0.35	1526	0.72	1509	1.01	1452	1.32	
	2213	2.73	2149	3.08	2131	3.32	2116	3.59	
19 TH	0538	0.05	0454	0.48	0435	0.66	0415	0.98	19 TH
	1126	2.39	1100	2.80	1048	3.04	1030	3.34	
	1747	0.19	1710	0.57	1647	0.83	1630	1.12	
	2333	2.87	2311	3.22	2258	3.50	2242	3.81	
20 FR	0638	-0.23	0601	0.21	0533	0.39	0514	0.70	20 FR
	1224	2.67	1201	3.09	1142	3.34	1123	3.65	
	1846	-0.03	1811	0.33	1742	0.58	1725	0.85	
					2345	3.71	2326	4.04	
21 SA	0024	3.05	0005	3.41	0614	0.23	0554	0.51	21 SA
	0721	-0.34	0644	0.05	1216	3.55	1153	3.88	
	1301	2.88	1239	3.30	1821	0.41	1803	0.64	
	1927	-0.12	1852	0.18			2353	4.21	
22 SU	0058	3.19	0041	3.56	0015	3.85	0624	0.40	22 SU
	0755	-0.30	0717	0.00	0646	0.17	1215	4.07	
	1329	3.04	1306	3.45	1240	3.72	1834	0.50	
	2000	-0.12	1926	0.12	1853	0.30			
23 MO	0127	3.31	0109	3.68	0039	3.97	0017	4.36	23 MO
	0823	-0.22	0744	0.00	0713	0.14	0650	0.32	
	1353	3.18	1328	3.58	1300	3.87	1237	4.25	
	2028	-0.09	1954	0.10	1921	0.23	1901	0.41	
24 TU	0154	3.40	0135	3.79	0102	4.07	0043	4.48	24 TU
	0846	-0.16	0809	0.00	0736	0.11	0714	0.24	
	1415	3.29	1351	3.68	1321	3.99	1302	4.38	
	2052	-0.07	2020	0.10	1946	0.19	1926	0.36	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 WE	0221	3.45	0202	3.85	0128	4.11	0109	4.54	25 WE
	0908	-0.16	0832	-0.02	0759	0.08	0738	0.17	
	1439	3.38	1416	3.74	1344	4.07	1326	4.44	
	2120	-0.07	2045	0.09	2012	0.16	1952	0.33	
26 TH	0249	3.46	0229	3.86	0155	4.10	0135	4.53	26 TH
	0934	-0.18	0857	-0.05	0824	0.05	0803	0.14	
	1506	3.42	1441	3.76	1409	4.09	1350	4.45	
	2151	-0.07	2113	0.08	2041	0.16	2019	0.32	
27 FR	0319	3.40	0256	3.80	0224	4.03	0200	4.47	27 FR
	1003	-0.20	0924	-0.06	0851	0.04	0830	0.14	
	1536	3.41	1507	3.75	1438	4.09	1416	4.43	
	2224	-0.05	2144	0.08	2112	0.17	2047	0.35	
28 SA	0350	3.29	0324	3.71	0254	3.94	0229	4.38	28 SA
	1032	-0.21	0953	-0.06	0919	0.05	0857	0.18	
	1607	3.36	1537	3.73	1508	4.07	1447	4.40	
	2257	-0.03	2215	0.09	2143	0.21	2117	0.39	
29 SU	0422	3.14	0355	3.60	0326	3.82	0301	4.25	29 SU
	1101	-0.23	1023	-0.05	0948	0.08	0926	0.26	
	1639	3.29	1610	3.70	1543	4.03	1521	4.36	
	2328	-0.02	2248	0.12	2214	0.28	2148	0.48	
30 MO	0457	2.98	0430	3.46	0401	3.68	0338	4.07	30 MO
	1131	-0.24	1054	0.00	1019	0.16	0957	0.39	
	1716	3.21	1649	3.64	1622	3.94	1601	4.26	
			2324	0.19	2250	0.41	2224	0.65	
31 TU	0002	0.01	0512	3.27	0444	3.47	0422	3.82	31 TU
	0538	2.80	1131	0.13	1056	0.35	1035	0.63	
	1208	-0.18	1736	3.50	1709	3.77	1649	4.08	
	1803	3.07			2338	0.65	2312	0.93	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0048	0.13	0010	0.36	0537	3.19	0518	3.52	1 WE
	0632	2.56	0605	3.01	1148	0.67	1129	0.99	
	1257	0.02	1222	0.40	1811	3.51	1753	3.83	
	1906	2.87	1840	3.28					
2 TH	0208	0.30	0120	0.60	0103	0.92	0030	1.24	2 TH
	0749	2.33	0722	2.75	0701	2.92	0644	3.26	
	1412	0.29	1342	0.70	1312	1.02	1252	1.34	
	2050	2.75	2015	3.14	1959	3.37	1933	3.69	
3 FR	0344	0.31	0300	0.70	0245	0.93	0222	1.29	3 FR
	0943	2.36	0914	2.77	0900	2.98	0832	3.32	
	1600	0.37	1530	0.76	1505	1.03	1446	1.35	
	2225	2.93	2154	3.28	2132	3.55	2106	3.86	
4 SA	0513	0.16	0433	0.55	0417	0.72	0351	1.05	4 SA
	1113	2.69	1043	3.11	1022	3.34	0957	3.69	
	1733	0.21	1658	0.57	1635	0.79	1611	1.06	
	2331	3.20	2302	3.56	2236	3.84	2215	4.18	
5 SU	0623	-0.02	0544	0.33	0521	0.44	0455	0.72	5 SU
	1209	3.05	1137	3.47	1112	3.73	1050	4.12	
	1840	0.05	1803	0.34	1736	0.52	1712	0.71	
			2351	3.80	2322	4.10	2302	4.50	
6 MO	0020	3.43	0636	0.16	0608	0.22	0542	0.42	6 MO
	0715	-0.12	1218	3.75	1150	4.05	1129	4.49	
	1251	3.34	1854	0.18	1824	0.30	1800	0.42	
	1932	-0.04					2342	4.76	
7 TU	0059	3.59	0031	3.98	0000	4.30	0623	0.19	7 TU
	0800	-0.15	0719	0.06	0649	0.06	1205	4.78	
	1326	3.55	1253	3.96	1224	4.31	1844	0.21	
	2019	-0.07	1940	0.10	1908	0.15			
8 WE ○	0136	3.71	0109	4.11	0038	4.44	0020	4.94	8 WE ○
	0842	-0.15	0759	-0.01	0729	-0.04	0702	0.03	
	1400	3.72	1328	4.11	1300	4.50	1243	4.98	
	○ 2104	-0.07	2023	0.05	1951	0.05	1925	0.09 ○	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0214	3.77	0148	4.18	0117	4.49	0100	5.02	9 TH
	0922	-0.16	0839	-0.05	0808	-0.10	0742	-0.05	
	1438	3.83	1407	4.20	1339	4.61	1323	5.07	
	2147	-0.06	2105	0.05	2033	0.02	2007	0.05	
10 FR	0256	3.75	0231	4.16	0200	4.45	0142	4.98	10 FR
	1002	-0.17	0918	-0.06	0846	-0.09	0821	-0.05	
	1519	3.86	1449	4.21	1421	4.63	1405	5.06	
	2230	-0.04	2147	0.07	2114	0.04	2047	0.08	
11 SA	0341	3.66	0316	4.07	0245	4.34	0225	4.85	11 SA
	1041	-0.16	0957	-0.04	0925	-0.04	0900	0.03	
	1603	3.81	1535	4.16	1505	4.57	1448	4.97	
	2312	-0.02	2228	0.11	2156	0.10	2128	0.18	
12 SU	0427	3.50	0403	3.91	0332	4.17	0311	4.64	12 SU
	1119	-0.12	1036	0.04	1004	0.09	0939	0.20	
	1649	3.71	1623	4.05	1552	4.43	1534	4.81	
	2355	0.02	2310	0.19	2239	0.23	2210	0.36	
13 MO	0516	3.28	0452	3.68	0424	3.93	0400	4.34	13 MO
	1158	-0.01	1118	0.20	1045	0.32	1021	0.49	
	1739	3.51	1716	3.87	1646	4.20	1625	4.55	
			2356	0.34	2328	0.45	2258	0.65	
14 TU	0042	0.11	0548	3.38	0524	3.60	0457	3.95	14 TU
	0611	2.97	1207	0.45	1134	0.67	1112	0.90	
	1244	0.20	1819	3.59	1755	3.88	1727	4.19	
	1842	3.22							
15 WE	0141	0.24	0054	0.55	0033	0.73	0003	1.01	15 WE
	0727	2.63	0658	3.04	0640	3.25	0613	3.54	
	1351	0.47	1314	0.77	1250	1.07	1227	1.34	
	2007	2.94	1937	3.31	1914	3.57	1847	3.84	
16 TH	0255	0.35	0211	0.75	0155	0.93	0131	1.27	16 TH
	0859	2.45	0835	2.83	0816	3.05	0757	3.34	
	1526	0.62	1448	0.97	1427	1.26	1409	1.54	
	2131	2.81	2107	3.17	2043	3.41	2021	3.68	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0445	0.31	0401	0.76	0353	0.90	0324	1.26	17 FR
	1054	2.59	1024	2.98	1011	3.24	0947	3.53	
	1712	0.49	1635	0.87	1617	1.13	1553	1.41	
	2255	2.91	2235	3.27	2218	3.53	2155	3.81	
18 SA	0601	0.09	0523	0.54	0458	0.67	0437	1.02	18 SA
	1153	2.90	1126	3.28	1107	3.56	1045	3.86	
	1817	0.26	1742	0.62	1715	0.86	1654	1.12	
	2353	3.10	2331	3.47	2310	3.74	2247	4.05	
19 SU	0644	-0.03	0608	0.36	0539	0.50	0517	0.80	19 SU
	1231	3.16	1204	3.54	1140	3.82	1116	4.16	
	1859	0.12	1824	0.44	1754	0.64	1733	0.87	
					2342	3.93	2319	4.27	
20 MO	0030	3.27	0009	3.65	0609	0.39	0547	0.64	20 MO
	0716	-0.04	0641	0.26	1204	4.04	1140	4.41	
	1259	3.34	1232	3.74	1825	0.49	1804	0.69	
	1933	0.09	1858	0.34			2347	4.45	
21 TU	0101	3.40	0038	3.81	0008	4.09	0613	0.50	21 TU
	0744	-0.02	0709	0.20	0635	0.31	1205	4.61	
	1324	3.48	1256	3.91	1227	4.22	1831	0.57	
	2002	0.10	1927	0.30	1853	0.40			
22 WE	0129	3.49	0106	3.93	0034	4.19	0015	4.59	22 WE
	0810	0.01	0735	0.17	0700	0.25	0638	0.38	
	1347	3.57	1320	4.02	1250	4.34	1231	4.74	
	2029	0.13	1954	0.29	1920	0.34	1857	0.48	
23 TH	0155	3.54	0133	3.99	0101	4.24	0042	4.65	23 TH
	0837	0.02	0800	0.15	0726	0.21	0704	0.29	
	1411	3.65	1345	4.07	1314	4.41	1256	4.79	
	2058	0.15	2021	0.29	1948	0.32	1925	0.44	
24 FR	0222	3.56	0200	4.00	0128	4.24	0108	4.66	24 FR
	0905	0.01	0827	0.13	0753	0.19	0732	0.25	
	1438	3.69	1410	4.08	1341	4.44	1320	4.80	
	2131	0.16	2051	0.29	2019	0.31	1954	0.43	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0252	3.54	0227	3.95	0158	4.19	0134	4.63	25 SA
	0936	0.00	0857	0.12	0823	0.18	0801	0.26	
	1510	3.70	1438	4.07	1411	4.44	1348	4.80	
	2205	0.17	2123	0.30	2051	0.33	2025	0.45	
26 SU	0326	3.46	0257	3.88	0230	4.11	0204	4.56	26 SU
	1008	0.00	0928	0.13	0854	0.20	0831	0.31	
	1545	3.65	1510	4.04	1445	4.41	1420	4.77	
	2240	0.19	2156	0.32	2125	0.36	2057	0.49	
27 MO	0402	3.32	0332	3.78	0306	4.01	0240	4.45	27 MO
	1040	0.01	1001	0.17	0926	0.26	0902	0.41	
	1621	3.57	1548	4.00	1523	4.36	1458	4.71	
	2315	0.21	2231	0.35	2200	0.43	2131	0.58	
28 TU	0441	3.17	0411	3.65	0345	3.88	0320	4.30	28 TU
	1114	0.04	1036	0.25	1001	0.36	0937	0.56	
	1702	3.48	1630	3.93	1605	4.27	1541	4.61	
	2353	0.25	2310	0.42	2239	0.54	2209	0.72	
29 WE	0525	3.00	0457	3.50	0430	3.72	0407	4.10	29 WE
	1153	0.13	1118	0.39	1042	0.55	1019	0.79	
	1750	3.35	1720	3.80	1653	4.11	1631	4.44	
			2359	0.54	2331	0.72	2259	0.94	
30 TH	0043	0.34	0552	3.31	0526	3.52	0504	3.87	30 TH
	0621	2.83	1213	0.62	1137	0.84	1115	1.11	
	1246	0.31	1822	3.62	1754	3.89	1733	4.22	
	1852	3.19							

05 | MAY | 2020

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 FR	0157	0.42	0106	0.70	0048	0.89	0012	1.18	1 FR
	0737	2.71	0706	3.15	0645	3.36	0623	3.70	
	1403	0.52	1330	0.85	1301	1.10	1237	1.37	
	2020	3.09	1948	3.50	1926	3.76	1900	4.07	
2 SA	0318	0.39	0230	0.77	0213	0.88	0144	1.24	2 SA
	0917	2.80	0846	3.22	0828	3.47	0801	3.79	
	1539	0.56	1505	0.89	1438	1.09	1416	1.37	
	2149	3.19	2118	3.59	2054	3.85	2027	4.16	
3 SU	0436	0.28	0354	0.67	0331	0.74	0305	1.07	3 SU
	1039	3.11	1009	3.53	0944	3.80	0919	4.13	
	1706	0.43	1629	0.73	1600	0.90	1536	1.13	
	2257	3.38	2228	3.79	2200	4.06	2137	4.39	
4 MO	0546	0.17	0505	0.50	0440	0.54	0412	0.82	4 MO
	1138	3.43	1105	3.86	1038	4.15	1016	4.53	
	1815	0.29	1736	0.54	1706	0.68	1640	0.83	
	2351	3.56	2321	3.98	2252	4.26	2230	4.64	
5 TU	0642	0.10	0602	0.36	0533	0.37	0505	0.56	5 TU
	1224	3.69	1149	4.12	1120	4.45	1100	4.87	
	1910	0.21	1831	0.40	1759	0.48	1732	0.57	
					2335	4.43	2315	4.86	
6 WE	0035	3.70	0005	4.14	0618	0.23	0550	0.35	6 WE
	0730	0.07	0648	0.25	1158	4.69	1139	5.15	
	1302	3.88	1227	4.32	1846	0.33	1819	0.38	
	1959	0.18	1918	0.33			2356	5.02	
7 TH	0114	3.81	0046	4.25	0016	4.56	0632	0.20	7 TH
	0813	0.05	0731	0.18	0700	0.13	1218	5.32	
	1339	4.02	1305	4.45	1237	4.86	1902	0.26	
	○ 2044	0.17	2003	0.29	1930	0.24			○
8 FR	0155	3.87	0128	4.31	0058	4.61	0039	5.10	8 FR
	0855	0.03	0813	0.14	0741	0.08	0714	0.14	
	1418	4.09	1345	4.51	1318	4.94	1300	5.38	
	2129	0.18	2046	0.30	2013	0.21	1945	0.23	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SA	0239	3.86	0213	4.29	0143	4.58	0123	5.07	9 SA
	0937	0.04	0854	0.15	0822	0.10	0755	0.17	
	1502	4.08	1429	4.49	1402	4.92	1343	5.34	
	2212	0.20	2128	0.33	2056	0.25	2027	0.28	
10 SU	0325	3.77	0259	4.19	0229	4.47	0208	4.95	10 SU
	1018	0.09	0935	0.21	0902	0.20	0836	0.28	
	1547	4.02	1515	4.41	1447	4.82	1427	5.22	
	2255	0.23	2210	0.39	2138	0.32	2109	0.38	
11 MO	0412	3.62	0345	4.03	0316	4.31	0253	4.76	11 MO
	1058	0.17	1016	0.33	0942	0.35	0917	0.47	
	1632	3.91	1603	4.28	1533	4.67	1512	5.04	
	2338	0.27	2251	0.47	2221	0.44	2150	0.55	
12 TU	0459	3.43	0433	3.84	0405	4.10	0340	4.51	12 TU
	1138	0.31	1058	0.50	1023	0.58	0959	0.74	
	1719	3.74	1652	4.11	1622	4.47	1600	4.80	
			2335	0.58	2308	0.60	2236	0.78	
13 WE	0022	0.33	0524	3.62	0500	3.86	0432	4.22	13 WE
	0550	3.21	1144	0.72	1109	0.88	1047	1.09	
	1220	0.49	1748	3.88	1721	4.19	1655	4.49	
	1812	3.51					2330	1.06	
14 TH	0115	0.42	0027	0.72	0004	0.80	0536	3.92	14 TH
	0653	2.97	0626	3.38	0607	3.60	1150	1.45	
	1317	0.72	1243	0.97	1213	1.22	1802	4.17	
	1920	3.24	1854	3.62	1831	3.89			
15 FR	0218	0.50	0130	0.89	0112	0.98	0041	1.31	15 FR
	0814	2.82	0743	3.21	0724	3.44	0659	3.73	
	1443	0.88	1403	1.17	1341	1.42	1317	1.68	
	2040	3.06	2010	3.43	1944	3.68	1919	3.95	
16 SA	0325	0.53	0244	0.98	0220	1.07	0155	1.44	16 SA
	0940	2.88	0916	3.25	0856	3.50	0828	3.78	
	1602	0.85	1526	1.17	1456	1.42	1436	1.67	
	2153	3.04	2130	3.42	2103	3.64	2037	3.92	

05 | MAY | 2020

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SU	0432	0.48	0401	0.93	0330	1.04	0308	1.39	17 SU
	1055	3.11	1027	3.49	1004	3.76	0939	4.04	
	1716	0.70	1644	1.02	1618	1.24	1553	1.49	
	2259	3.17	2237	3.55	2211	3.78	2146	4.06	
18 MO	0534	0.39	0506	0.79	0435	0.90	0412	1.22	18 MO
	1143	3.38	1114	3.76	1048	4.04	1025	4.36	
	1813	0.52	1740	0.82	1711	1.00	1646	1.23	
	2348	3.34	2324	3.73	2256	3.97	2234	4.27	
19 TU	0621	0.30	0551	0.64	0517	0.75	0454	1.01	19 TU
	1219	3.60	1149	4.00	1121	4.29	1100	4.64	
	1855	0.41	1820	0.68	1748	0.80	1724	1.01	
					2332	4.13	2312	4.46	
20 WE	0027	3.48	0001	3.90	0552	0.62	0529	0.82	20 WE
	0700	0.27	0627	0.53	1151	4.48	1131	4.85	
	1249	3.74	1219	4.18	1821	0.68	1756	0.85	
	1931	0.38	1855	0.61			2344	4.60	
21 TH	0059	3.56	0034	4.01	0003	4.24	0601	0.67	21 TH
	0734	0.27	0659	0.47	0624	0.54	1200	4.97	
	1316	3.83	1248	4.28	1218	4.60	1827	0.75	
	2004	0.41	1927	0.59	1853	0.62			
22 FR	0127	3.62	0104	4.07	0033	4.31	0014	4.68	22 FR
	0806	0.29	0729	0.44	0654	0.49	0631	0.57	
	1343	3.89	1316	4.33	1245	4.68	1226	5.04	
	2037	0.43	1959	0.60	1925	0.59	1858	0.68	
23 SA	0155	3.67	0133	4.10	0102	4.34	0042	4.72	23 SA
	0838	0.29	0800	0.43	0725	0.45	0702	0.51	
	1412	3.95	1342	4.36	1314	4.73	1252	5.08	
	2112	0.45	2031	0.61	1958	0.57	1932	0.65	
24 SU	0227	3.70	0202	4.09	0134	4.34	0111	4.75	24 SU
	0911	0.28	0833	0.41	0758	0.42	0735	0.49	
	1447	3.99	1413	4.37	1348	4.75	1323	5.11	
	2149	0.45	2106	0.61	2034	0.56	2007	0.64	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 MO	0305	3.67	0236	4.06	0210	4.32	0145	4.73	25 MO
	0947	0.28	0909	0.43	0834	0.42	0809	0.53	
	1526	3.97	1449	4.36	1425	4.74	1359	5.10	
	2227	0.47	2143	0.62	2112	0.58	2043	0.66	
26 TU	0346	3.58	0315	3.99	0249	4.25	0223	4.67	26 TU
	1024	0.32	0946	0.47	0911	0.48	0846	0.62	
	1607	3.90	1531	4.31	1506	4.69	1440	5.04	
	2307	0.50	2222	0.65	2152	0.62	2121	0.72	
27 WE	0430	3.45	0358	3.90	0331	4.16	0306	4.56	27 WE
	1104	0.38	1027	0.56	0951	0.60	0926	0.76	
	1652	3.81	1616	4.24	1550	4.61	1524	4.94	
	2350	0.53	2304	0.69	2236	0.69	2203	0.82	
28 TH	0518	3.33	0445	3.79	0418	4.05	0353	4.42	28 TH
	1149	0.48	1113	0.69	1037	0.76	1011	0.95	
	1741	3.71	1707	4.14	1639	4.48	1615	4.80	
			2353	0.75	2327	0.77	2253	0.95	
29 FR	0042	0.55	0540	3.69	0513	3.94	0449	4.28	29 FR
	0613	3.24	1209	0.84	1133	0.96	1109	1.16	
	1244	0.61	1806	4.00	1737	4.31	1714	4.62	
	1839	3.59					2356	1.07	
30 SA	0144	0.55	0052	0.81	0031	0.84	0601	4.19	30 SA
	0722	3.22	0649	3.63	0626	3.88	1222	1.32	
	1355	0.73	1318	0.98	1247	1.12	1831	4.48	
	1952	3.50	1921	3.90	1855	4.18			
31 SU	0253	0.50	0202	0.84	0142	0.83	0109	1.12	31 SU
	0847	3.33	0816	3.72	0754	3.99	0729	4.29	
	1518	0.74	1439	1.01	1411	1.12	1345	1.32	
	2113	3.51	2043	3.90	2016	4.17	1952	4.48	

06 | JUNE | 2020

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 MO	0402	0.43	0316	0.81	0251	0.75	0222	1.05	1 MO
	1003	3.56	0932	3.95	0906	4.24	0842	4.56	
	1637	0.65	1559	0.91	1526	1.00	1501	1.16	
	2221	3.59	2153	4.00	2123	4.25	2100	4.58	
2 TU	0508	0.37	0427	0.71	0356	0.66	0328	0.90	2 TU
	1105	3.79	1033	4.20	1004	4.51	0942	4.87	
	1748	0.56	1709	0.78	1635	0.84	1607	0.95	
	2320	3.68	2252	4.11	2221	4.36	2200	4.73	
3 WE	0609	0.34	0528	0.60	0456	0.56	0427	0.73	3 WE
	1157	3.98	1122	4.41	1052	4.75	1033	5.14	
	1848	0.50	1808	0.67	1735	0.68	1706	0.75	
			2343	4.22	2312	4.48	2252	4.88	
4 TH	0011	3.78	0621	0.51	0548	0.46	0519	0.57	4 TH
	0701	0.32	1205	4.56	1136	4.94	1117	5.36	
	1241	4.11	1900	0.60	1826	0.56	1757	0.59	
	1941	0.46			2358	4.59	2338	5.01	
5 FR	0056	3.87	0028	4.31	0635	0.37	0607	0.45	5 FR
	0748	0.30	0708	0.44	1218	5.07	1159	5.50	
	1321	4.21	1246	4.67	1913	0.48	1844	0.49	
	2028	0.45	1947	0.58					
6 SA	0139	3.93	0112	4.36	0043	4.66	0023	5.09	6 SA
	0832	0.28	0752	0.41	0719	0.33	0652	0.39	
	1402	4.27	1328	4.71	1301	5.12	1242	5.55	
	○ 2113	0.46	2031	0.59	1958	0.46	1928	0.46	○
7 SU	0224	3.93	0157	4.35	0129	4.65	0108	5.10	7 SU
	0915	0.30	0835	0.44	0802	0.36	0736	0.41	
	1446	4.25	1412	4.68	1345	5.09	1325	5.51	
	2157	0.48	2114	0.63	2041	0.50	2011	0.50	
8 MO	0309	3.87	0242	4.28	0214	4.58	0152	5.02	8 MO
	0957	0.37	0917	0.52	0843	0.45	0818	0.52	
	1529	4.19	1457	4.59	1429	5.00	1408	5.39	
	2239	0.52	2155	0.69	2123	0.56	2053	0.59	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TU	0354	3.76	0327	4.16	0259	4.46	0235	4.89	9 TU
	1038	0.48	0958	0.64	0923	0.60	0859	0.69	
	1612	4.10	1541	4.48	1512	4.87	1451	5.24	
	2320	0.55	2235	0.74	2204	0.63	2133	0.71	
10 WE	0437	3.64	0412	4.03	0343	4.32	0318	4.72	10 WE
	1118	0.61	1039	0.77	1003	0.78	0940	0.90	
	1654	3.99	1627	4.35	1556	4.71	1535	5.05	
			2314	0.79	2245	0.71	2213	0.85	
11 TH	0000	0.58	0457	3.91	0430	4.17	0404	4.53	11 TH
	0521	3.52	1121	0.91	1044	0.99	1022	1.13	
	1156	0.74	1714	4.20	1645	4.51	1622	4.83	
	1738	3.84	2357	0.86	2330	0.83	2256	1.03	
12 FR	0043	0.61	0547	3.78	0524	4.02	0456	4.35	12 FR
	0610	3.40	1208	1.08	1132	1.23	1110	1.39	
	1239	0.89	1808	4.00	1741	4.27	1716	4.57	
	1829	3.63					2347	1.23	
13 SA	0133	0.67	0045	0.96	0024	0.98	0559	4.19	13 SA
	0712	3.28	0647	3.67	0627	3.90	1213	1.62	
	1338	1.05	1307	1.24	1243	1.45	1821	4.32	
	1934	3.41	1910	3.80	1845	4.04			
14 SU	0231	0.73	0144	1.08	0124	1.11	0049	1.42	14 SU
	0827	3.25	0756	3.63	0735	3.86	0710	4.15	
	1501	1.11	1421	1.34	1358	1.53	1330	1.73	
	2048	3.28	2017	3.66	1950	3.88	1928	4.17	
15 MO	0332	0.75	0251	1.15	0224	1.17	0156	1.50	15 MO
	0936	3.35	0906	3.71	0844	3.96	0819	4.25	
	1608	1.04	1532	1.31	1501	1.47	1438	1.67	
	2154	3.27	2125	3.64	2056	3.85	2035	4.14	
16 TU	0431	0.71	0355	1.12	0322	1.16	0259	1.45	16 TU
	1036	3.54	1010	3.89	0946	4.16	0923	4.46	
	1711	0.91	1638	1.18	1603	1.32	1540	1.51	
	2253	3.36	2228	3.73	2159	3.93	2140	4.24	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 WE	0527	0.64	0454	1.01	0418	1.07	0356	1.30	17 WE
	1128	3.74	1101	4.11	1035	4.39	1015	4.71	
	1809	0.77	1735	1.03	1701	1.13	1636	1.30	
	2344	3.47	2320	3.87	2252	4.07	2233	4.40	
18 TH	0617	0.59	0544	0.89	0508	0.96	0444	1.13	18 TH
	1210	3.89	1143	4.30	1115	4.58	1056	4.93	
	1858	0.68	1823	0.92	1748	0.98	1721	1.12	
					2333	4.19	2314	4.55	
19 FR	0025	3.58	0002	4.00	0551	0.86	0526	0.97	19 FR
	0701	0.57	0626	0.80	1149	4.72	1131	5.08	
	1245	3.99	1219	4.42	1829	0.89	1800	0.99	
	1940	0.67	1903	0.88			2348	4.67	
20 SA	0058	3.66	0039	4.09	0009	4.30	0603	0.84	20 SA
	0740	0.57	0704	0.75	0628	0.77	1201	5.19	
	1317	4.07	1251	4.50	1220	4.84	1837	0.89	
	2019	0.69	1941	0.87	1906	0.82			
21 SU	0130	3.76	0111	4.16	0041	4.40	0020	4.78	21 SU
	0816	0.57	0740	0.71	0704	0.69	0639	0.73	
	1349	4.16	1321	4.56	1252	4.95	1231	5.30	
	2058	0.70	2019	0.86	1944	0.76	1914	0.80	
22 MO	0205	3.85	0144	4.22	0115	4.49	0053	4.89	22 MO
	0854	0.55	0818	0.67	0741	0.61	0717	0.65	
	1426	4.24	1354	4.62	1328	5.02	1305	5.38	
	2138	0.70	2057	0.84	2024	0.71	1954	0.73	
23 TU	0246	3.90	0220	4.25	0153	4.54	0129	4.96	23 TU
	0934	0.55	0857	0.67	0821	0.58	0756	0.63	
	1507	4.27	1433	4.65	1407	5.05	1343	5.42	
	2220	0.70	2137	0.83	2105	0.68	2034	0.70	
24 WE	0330	3.87	0301	4.23	0233	4.54	0209	4.96	24 WE
	1015	0.58	0939	0.71	0903	0.61	0838	0.67	
	1551	4.24	1515	4.62	1449	5.01	1424	5.40	
	2302	0.71	2217	0.83	2147	0.68	2115	0.71	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TH	0416	3.80	0345	4.18	0316	4.49	0252	4.90	25 TH
	1059	0.65	1023	0.78	0947	0.70	0921	0.76	
	1637	4.17	1601	4.55	1533	4.93	1509	5.32	
	2345	0.71	2259	0.84	2230	0.69	2157	0.74	
26 FR	0503	3.74	0432	4.12	0402	4.44	0338	4.82	26 FR
	1145	0.72	1109	0.87	1033	0.81	1007	0.87	
	1724	4.08	1650	4.46	1621	4.82	1557	5.20	
			2344	0.84	2316	0.70	2242	0.78	
27 SA	0031	0.68	0523	4.08	0454	4.39	0430	4.74	27 SA
	0554	3.70	1201	0.96	1124	0.94	1058	0.99	
	1237	0.80	1746	4.33	1715	4.67	1652	5.03	
	1816	3.97					2334	0.84	
28 SU	0124	0.65	0034	0.85	0008	0.73	0534	4.68	28 SU
	0653	3.70	0625	4.06	0558	4.36	1200	1.12	
	1339	0.86	1301	1.04	1228	1.06	1800	4.85	
	1918	3.84	1853	4.19	1824	4.50			
29 MO	0223	0.62	0133	0.89	0110	0.77	0035	0.92	29 MO
	0809	3.74	0743	4.10	0719	4.40	0654	4.71	
	1453	0.89	1413	1.09	1344	1.11	1314	1.19	
	2035	3.73	2011	4.10	1942	4.37	1918	4.71	
30 TU	0329	0.60	0242	0.92	0216	0.79	0143	0.98	30 TU
	0928	3.85	0859	4.21	0831	4.52	0808	4.84	
	1609	0.87	1531	1.06	1457	1.08	1430	1.16	
	2148	3.69	2124	4.07	2052	4.31	2030	4.66	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0436	0.60	0354	0.91	0323	0.80	0253	0.98	1 WE
	1035	3.97	1005	4.36	0935	4.67	0914	5.01	
	1725	0.82	1646	0.99	1610	1.00	1542	1.05	
	2254	3.69	2231	4.10	2158	4.32	2138	4.68	
2 TH	0541	0.60	0503	0.85	0429	0.78	0359	0.91	2 TH
	1135	4.09	1103	4.49	1031	4.82	1013	5.20	
	1834	0.75	1754	0.89	1719	0.87	1649	0.90	
	2355	3.73	2330	4.17	2258	4.39	2239	4.79	
3 FR	0640	0.58	0603	0.77	0529	0.70	0500	0.79	3 FR
	1226	4.18	1153	4.60	1121	4.96	1104	5.38	
	1930	0.69	1851	0.81	1815	0.74	1746	0.75	
					2350	4.50	2329	4.93	
4 SA	0046	3.82	0021	4.25	0621	0.61	0553	0.66	4 SA
	0732	0.54	0655	0.70	1206	5.08	1149	5.52	
	1310	4.27	1237	4.69	1904	0.65	1834	0.63	
	2019	0.65	1940	0.77					
5 SU	0130	3.90	0106	4.32	0036	4.61	0014	5.05	5 SU
	0818	0.52	0741	0.66	0707	0.54	0640	0.56	
	1350	4.33	1319	4.75	1249	5.16	1230	5.61	
	○ 2103	0.66	2024	0.77	1949	0.61	1918	0.58	○
6 MO	0211	3.95	0148	4.35	0119	4.67	0056	5.12	6 MO
	0901	0.54	0824	0.66	0750	0.53	0724	0.53	
	1429	4.35	1400	4.75	1330	5.17	1311	5.61	
	2144	0.68	2105	0.79	2030	0.61	1959	0.59	
7 TU	0252	3.95	0229	4.33	0200	4.67	0137	5.12	7 TU
	0942	0.60	0905	0.72	0830	0.59	0804	0.59	
	1508	4.32	1440	4.71	1410	5.12	1350	5.55	
	2223	0.72	2142	0.83	2108	0.64	2037	0.63	
8 WE	0331	3.91	0310	4.28	0239	4.62	0216	5.05	8 WE
	1021	0.70	0943	0.80	0907	0.69	0842	0.70	
	1547	4.27	1520	4.64	1449	5.03	1428	5.44	
	2259	0.74	2217	0.86	2144	0.68	2112	0.70	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0409	3.87	0349	4.22	0317	4.55	0253	4.96	9 TH
	1057	0.79	1020	0.89	0942	0.81	0918	0.83	
	1625	4.20	1600	4.57	1528	4.92	1506	5.31	
	2333	0.75	2250	0.87	2218	0.71	2146	0.76	
10 FR	0447	3.83	0427	4.18	0355	4.48	0332	4.86	10 FR
	1132	0.86	1056	0.96	1018	0.93	0954	0.97	
	1703	4.10	1640	4.47	1608	4.78	1547	5.15	
			2324	0.88	2252	0.77	2221	0.85	
11 SA	0007	0.74	0508	4.13	0437	4.40	0413	4.76	11 SA
	0527	3.78	1134	1.05	1055	1.08	1031	1.12	
	1207	0.93	1723	4.31	1652	4.59	1630	4.93	
	1744	3.95			2329	0.88	2258	1.00	
12 SU	0042	0.77	0000	0.94	0524	4.30	0500	4.63	12 SU
	0610	3.70	0553	4.06	1138	1.26	1114	1.32	
	1245	1.03	1215	1.17	1742	4.34	1721	4.67	
	1829	3.74	1812	4.10			2340	1.19	
13 MO	0121	0.84	0040	1.05	0012	1.05	0557	4.50	13 MO
	0702	3.61	0646	3.96	0622	4.19	1207	1.54	
	1333	1.15	1307	1.32	1235	1.46	1823	4.40	
	1923	3.51	1909	3.87	1843	4.09			
14 TU	0212	0.94	0131	1.21	0110	1.24	0033	1.41	14 TU
	0815	3.55	0751	3.89	0728	4.12	0705	4.42	
	1458	1.24	1423	1.44	1401	1.56	1327	1.70	
	2039	3.34	2015	3.69	1948	3.90	1932	4.21	
15 WE	0328	1.01	0245	1.32	0224	1.35	0149	1.56	15 WE
	0931	3.59	0902	3.91	0837	4.16	0815	4.45	
	1616	1.18	1540	1.42	1508	1.51	1444	1.67	
	2152	3.30	2126	3.64	2057	3.82	2041	4.15	
16 TH	0439	0.97	0400	1.30	0328	1.35	0301	1.54	16 TH
	1036	3.72	1011	4.04	0945	4.30	0923	4.59	
	1724	1.05	1650	1.30	1614	1.38	1549	1.52	
	2258	3.37	2237	3.73	2209	3.89	2149	4.23	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0541 1134 1828 2354	0.89 3.88 0.91 3.51	0504 1109 1753 2334	1.19 4.23 1.14 3.89	0429 1041 1718 2307	1.25 4.51 1.19 4.07	0402 1022 1648 2245	1.40 4.82 1.32 4.42	17 FR
18 SA	0635 1221 1921	0.81 4.03 0.82	0559 1155 1845	1.05 4.41 1.02	0524 1125 1810 2350	1.10 4.72 1.02 4.27	0456 1106 1738 2327	1.21 5.04 1.12 4.64	18 SA
19 SU	0038 0722 1259 2006	3.66 0.75 4.16 0.79	0019 0646 1233 1928	4.06 0.93 4.55 0.95	0611 1201 1853	0.93 4.91 0.87	0542 1142 1821	0.99 5.26 0.93	19 SU
20 MO	0115 0805 1334 2048	3.81 0.72 4.29 0.78	0056 0728 1307 2009	4.21 0.83 4.69 0.89	0026 0653 1236 1934	4.47 0.77 5.09 0.74	0003 0625 1216 1901	4.87 0.79 5.46 0.76	20 MO
21 TU	0151 0847 1410 2130	3.96 0.69 4.41 0.77	0131 0810 1341 2049	4.34 0.76 4.80 0.85	0100 0734 1311 2014	4.66 0.63 5.23 0.63	0038 0706 1251 1942	5.08 0.61 5.63 0.61	21 TU
22 WE	0230 0929 1449 2211	4.08 0.68 4.48 0.76	0208 0852 1419 2129	4.42 0.72 4.86 0.81	0137 0816 1350 2055	4.79 0.54 5.30 0.56	0116 0749 1329 2023	5.23 0.50 5.74 0.51	22 WE
23 TH	0312 1012 1532 2252	4.13 0.70 4.48 0.75	0247 0935 1500 2209	4.46 0.73 4.86 0.79	0216 0858 1431 2135	4.85 0.53 5.28 0.52	0155 0831 1409 2103	5.30 0.46 5.75 0.46	23 TH
24 FR	0356 1056 1616 2332	4.12 0.74 4.42 0.73	0330 1018 1544 2248	4.45 0.77 4.80 0.78	0258 0941 1514 2215	4.85 0.58 5.20 0.50	0236 0913 1451 2142	5.30 0.49 5.68 0.44	24 FR

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0440 1140 1701	4.09 0.79 4.31	0415 1102 1631 2328	4.43 0.83 4.69 0.77	0341 1024 1600 2256	4.83 0.65 5.08 0.50	0319 0955 1536 2223	5.25 0.56 5.54 0.47	25 SA
26 SU	0014 0526 1227 1749	0.70 4.07 0.83 4.17	0503 1148 1723	4.41 0.89 4.53	0429 1110 1651 2342	4.79 0.76 4.89 0.56	0407 1041 1628 2308	5.17 0.68 5.32 0.56	26 SU
27 MO	0059 0618 1322 1845	0.67 4.02 0.89 3.98	0012 0559 1242 1826	0.77 4.36 0.97 4.33	0526 1206 1754	4.71 0.90 4.64	0503 1136 1730	5.06 0.86 5.02	27 MO
28 TU	0153 0727 1428 2003	0.69 3.94 0.95 3.75	0105 0711 1348 1943	0.84 4.30 1.07 4.11	0037 0643 1316 1913	0.70 4.60 1.06 4.37	0003 0616 1244 1848	0.74 4.93 1.06 4.71	28 TU
29 WE	0258 0900 1544 2126	0.74 3.90 0.98 3.60	0210 0831 1507 2103	0.96 4.26 1.13 3.97	0145 0802 1433 2030	0.87 4.55 1.14 4.17	0109 0738 1404 2009	0.97 4.85 1.18 4.51	29 WE
30 TH	0410 1016 1712 2243	0.78 3.94 0.95 3.55	0328 0946 1634 2222	1.04 4.29 1.09 3.94	0259 0915 1559 2149	0.99 4.57 1.11 4.12	0227 0855 1528 2130	1.13 4.88 1.16 4.47	30 TH
31 FR	0526 1125 1831 2356	0.78 4.01 0.80 3.61	0450 1057 1752 2333	1.01 4.38 0.93 4.03	0417 1023 1717 2305	0.98 4.67 0.93 4.23	0346 1006 1646 2240	1.13 5.02 0.99 4.60	31 FR

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SA	0634	0.71	0600	0.89	0525	0.86	0457	0.98	1 SA
	1221	4.11	1154	4.50	1121	4.82	1103	5.21	
	1929	0.66	1851	0.78	1814	0.74	1745	0.79	
					2359	4.40	2331	4.79	
2 SU	0050	3.72	0026	4.16	0618	0.70	0552	0.78	2 SU
	0729	0.64	0654	0.77	1206	4.97	1147	5.39	
	1305	4.21	1239	4.60	1900	0.61	1830	0.64	
	2015	0.61	1937	0.70					
3 MO	0130	3.84	0107	4.26	0038	4.56	0011	4.97	3 MO
	0814	0.60	0739	0.69	0703	0.59	0637	0.61	
	1341	4.29	1316	4.69	1243	5.09	1224	5.53	
	2055	0.62	2017	0.69	1940	0.54	1909	0.55	
4 TU	0204	3.94	0143	4.34	0113	4.68	0047	5.11	4 TU
	0854	0.61	0819	0.67	0742	0.53	0716	0.52	
	1415	4.34	1351	4.74	1318	5.15	1258	5.60	
	2131	0.67	2053	0.71	2016	0.52	1944	0.51	
5 WE	0236	4.01	0217	4.39	0145	4.75	0122	5.18	5 WE
	0930	0.66	0854	0.70	0818	0.55	0751	0.51	
	1448	4.37	1425	4.76	1352	5.15	1332	5.60	
	2204	0.72	2125	0.75	2049	0.54	2017	0.52	
6 TH	0308	4.05	0251	4.39	0217	4.77	0155	5.19	6 TH
	1004	0.72	0928	0.75	0850	0.61	0824	0.55	
	1522	4.35	1459	4.73	1425	5.10	1405	5.55	
	2234	0.74	2155	0.77	2118	0.57	2047	0.53	
7 FR	0340	4.06	0324	4.38	0248	4.75	0227	5.16	7 FR
	1036	0.78	0959	0.81	0920	0.68	0855	0.62	
	1556	4.30	1533	4.68	1459	5.02	1439	5.45	
	2303	0.74	2223	0.78	2146	0.59	2117	0.56	
8 SA	0413	4.05	0357	4.36	0321	4.72	0300	5.10	8 SA
	1108	0.81	1030	0.85	0951	0.75	0926	0.69	
	1630	4.21	1608	4.59	1534	4.90	1513	5.31	
	2331	0.72	2252	0.78	2215	0.62	2147	0.61	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SU	0448 1140 1705	4.02 0.84 4.07	0432 1103 1644 2321	4.33 0.89 4.45 0.80	0355 1023 1610 2245	4.67 0.84 4.73 0.70	0335 0958 1550 2218	5.02 0.79 5.11 0.71	9 SU
10 MO	0000 0523 1212 1742	0.72 3.96 0.88 3.89	0508 1137 1723 2353	4.27 0.97 4.24 0.87	0432 1057 1649 2317	4.57 0.97 4.51 0.84	0412 1033 1630 2252	4.90 0.95 4.85 0.89	10 MO
11 TU	0030 0603 1249 1826	0.75 3.85 0.97 3.65	0548 1216 1808	4.16 1.11 3.98	0513 43783 1735 2354	4.42 1.16 4.21 1.06	0454 1113 1717 2332	4.74 1.19 4.53 1.15	11 TU
12 WE	0105 0652 1337 1922	0.83 3.70 1.10 3.38	0031 0640 1308 1908	1.02 3.99 1.30 3.69	0607 1229 1838	4.23 1.41 3.89	0546 1206 1821	4.52 1.50 4.17	12 WE
13 TH	0153 0808 1508 2050	0.98 3.53 1.22 3.18	0121 0753 1435 2029	1.22 3.84 1.45 3.49	0045 0729 1411 2002	1.33 4.06 1.57 3.66	0024 0706 1339 1946	1.46 4.33 1.73 3.96	13 TH
14 FR	0316 0949 1641 2219	1.13 3.55 1.13 3.21	0248 0919 1606 2156	1.39 3.84 1.39 3.52	0227 0853 1532 2129	1.53 4.08 1.49 3.67	0151 0832 1509 2109	1.69 4.33 1.66 3.99	14 FR
15 SA	0505 1104 1800 2334	1.05 3.73 0.94 3.41	0423 1037 1725 2310	1.32 4.03 1.19 3.75	0354 1009 1653 2246	1.44 4.30 1.26 3.92	0324 0949 1622 2221	1.61 4.55 1.42 4.26	15 SA
16 SU	0614 1201 1902	0.87 3.97 0.75	0535 1134 1825	1.12 4.29 0.97	0505 1104 1752 2335	1.20 4.60 0.97 4.25	0434 1046 1721 2310	1.35 4.88 1.11 4.61	16 SU

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 MO	0026	3.66	0002	4.03	0558	0.92	0529	1.01	17 MO
	0709	0.71	0630	0.91	1145	4.89	1127	5.22	
	1244	4.17	1217	4.52	1837	0.73	1806	0.81	
	1950	0.65	1912	0.81			2349	4.95	
18 TU	0106	3.88	0042	4.25	0012	4.55	0615	0.68	18 TU
	0755	0.63	0717	0.74	0643	0.66	1202	5.52	
	1321	4.34	1253	4.71	1221	5.14	1847	0.55	
	2033	0.61	1954	0.71	1918	0.53			
19 WE	0141	4.08	0117	4.44	0045	4.82	0024	5.25	19 WE
	0839	0.58	0800	0.63	0725	0.46	0657	0.40	
	1355	4.48	1327	4.86	1255	5.33	1237	5.76	
	2114	0.60	2034	0.64	1957	0.38	1926	0.34	
20 TH	0215	4.23	0152	4.57	0120	5.02	0101	5.47	20 TH
	0922	0.57	0842	0.56	0806	0.34	0738	0.22	
	1432	4.56	1403	4.95	1332	5.42	1314	5.91	
	2155	0.60	2113	0.60	2037	0.28	2006	0.19	
21 FR	0253	4.33	0230	4.64	0157	5.13	0139	5.58	21 FR
	1005	0.58	0925	0.54	0847	0.29	0819	0.15	
	1511	4.56	1443	4.96	1412	5.41	1353	5.93	
	2234	0.59	2151	0.57	2116	0.23	2044	0.12	
22 SA	0333	4.35	0311	4.66	0236	5.15	0219	5.60	22 SA
	1048	0.61	1006	0.57	0929	0.32	0900	0.16	
	1554	4.49	1526	4.89	1454	5.32	1434	5.83	
	2313	0.58	2229	0.56	2154	0.23	2123	0.12	
23 SU	0415	4.34	0354	4.64	0319	5.13	0300	5.54	23 SU
	1130	0.64	1048	0.61	1010	0.38	0940	0.23	
	1638	4.37	1611	4.76	1538	5.15	1518	5.64	
	2352	0.56	2308	0.55	2233	0.28	2202	0.18	
24 MO	0500	4.28	0441	4.59	0404	5.05	0345	5.42	24 MO
	1214	0.67	1132	0.67	1053	0.50	1024	0.37	
	1725	4.18	1702	4.56	1628	4.91	1608	5.35	
			2351	0.58	2315	0.40	2245	0.35	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TU	0034	0.56	0535	4.49	0457	4.87	0438	5.22	25 TU
	0550	4.16	1222	0.78	1144	0.69	1114	0.62	
	1304	0.72	1803	4.28	1730	4.57	1708	4.95	
	1822	3.92					2336	0.66	
26 WE	0124	0.63	0041	0.70	0006	0.65	0546	4.92	26 WE
	0656	3.95	0644	4.31	0611	4.61	1219	0.95	
	1406	0.82	1325	0.94	1251	0.95	1827	4.51	
	1944	3.61	1922	3.96	1853	4.20			
27 TH	0230	0.75	0146	0.91	0118	0.96	0042	1.05	27 TH
	0839	3.78	0807	4.13	0739	4.38	0713	4.66	
	1523	0.90	1446	1.07	1414	1.13	1346	1.20	
	2115	3.41	2050	3.75	2017	3.93	1959	4.23	
28 FR	0351	0.84	0310	1.06	0244	1.15	0212	1.32	28 FR
	1002	3.75	0933	4.07	0902	4.30	0844	4.57	
	1709	0.83	1628	1.01	1559	1.09	1527	1.19	
	2247	3.39	2224	3.76	2202	3.92	2135	4.23	
29 SA	0524	0.78	0447	1.01	0419	1.08	0350	1.28	29 SA
	1118	3.83	1055	4.17	1028	4.42	1008	4.73	
	1827	0.56	1749	0.76	1716	0.81	1649	0.93	
			2338	3.94	2318	4.15	2248	4.47	
30 SU	0005	3.54	0601	0.79	0527	0.84	0503	1.02	30 SU
	0636	0.60	1156	4.33	1128	4.63	1107	4.97	
	1218	3.96	1844	0.54	1808	0.57	1742	0.67	
	1921	0.37					2335	4.72	
31 MO	0054	3.71	0028	4.11	0005	4.38	0552	0.74	31 MO
	0727	0.47	0652	0.62	0616	0.63	1146	5.18	
	1259	4.06	1238	4.45	1208	4.80	1822	0.51	
	2003	0.34	1926	0.46	1849	0.43			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TU	0127	3.83	0104	4.23	0037	4.55	0008	4.93	1 TU
	0808	0.45	0732	0.53	0656	0.49	0631	0.54	
	1330	4.15	1310	4.54	1238	4.92	1217	5.34	
	2039	0.41	2001	0.47	1924	0.37	1856	0.41	
2 WE	0154	3.95	0132	4.33	0103	4.70	0038	5.10	2 WE
	0843	0.48	0807	0.52	0731	0.42	0705	0.41	
	1359	4.24	1339	4.63	1306	5.02	1246	5.45	
	○ 2110	0.49	2032	0.51	1955	0.36	1926	0.35	○
3 TH	0218	4.05	0200	4.41	0128	4.81	0107	5.22	3 TH
	0915	0.52	0838	0.53	0802	0.40	0736	0.35	
	1428	4.29	1407	4.68	1334	5.05	1316	5.50	
	2137	0.55	2100	0.54	2023	0.37	1954	0.32	
4 FR	0244	4.13	0228	4.44	0154	4.86	0135	5.27	4 FR
	0944	0.57	0907	0.57	0831	0.43	0804	0.35	
	1458	4.30	1436	4.68	1403	5.03	1345	5.47	
	2203	0.56	2126	0.56	2048	0.39	2021	0.32	
5 SA	0313	4.16	0257	4.44	0221	4.86	0204	5.24	5 SA
	1013	0.60	0935	0.61	0857	0.47	0832	0.38	
	1529	4.25	1506	4.62	1433	4.95	1414	5.38	
	2229	0.56	2152	0.57	2114	0.41	2048	0.34	
6 SU	0343	4.15	0327	4.41	0250	4.83	0232	5.18	6 SU
	1043	0.62	1004	0.64	0926	0.52	0901	0.44	
	1600	4.14	1537	4.51	1504	4.83	1444	5.24	
	2257	0.55	2219	0.58	2140	0.45	2116	0.40	
7 MO	0414	4.10	0358	4.36	0320	4.77	0302	5.09	7 MO
	1114	0.63	1034	0.67	0955	0.58	0930	0.52	
	1631	4.00	1608	4.37	1536	4.67	1516	5.05	
	2324	0.54	2247	0.59	2208	0.51	2144	0.50	
8 TU	0447	4.02	0431	4.29	0353	4.67	0334	4.97	8 TU
	1145	0.65	1106	0.72	1025	0.68	1001	0.66	
	1706	3.81	1643	4.19	1610	4.47	1552	4.80	
	2353	0.54	2317	0.64	2237	0.63	2215	0.67	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 WE	0523	3.90	0507	4.19	0430	4.52	0411	4.80	9 WE
	1218	0.70	1141	0.83	1059	0.84	1036	0.89	
	1747	3.58	1724	3.94	1651	4.19	1634	4.48	
			2352	0.75	2311	0.83	2251	0.93	
10 TH	0026	0.60	0552	4.01	0515	4.29	0456	4.56	10 TH
	0608	3.72	1226	1.01	1143	1.10	1122	1.22	
	1300	0.80	1817	3.62	1743	3.84	1729	4.10	
	1840	3.30			2358	1.14	2339	1.29	
11 FR	0110	0.75	0038	0.97	0617	4.00	0558	4.25	11 FR
	0709	3.47	0654	3.77	1257	1.40	1234	1.57	
	1408	0.97	1335	1.23	1909	3.51	1856	3.78	
	1958	3.03	1937	3.34					
12 SA	0217	0.97	0150	1.22	0111	1.48	0052	1.64	12 SA
	0858	3.33	0829	3.63	0806	3.85	0743	4.09	
	1553	0.98	1520	1.28	1452	1.43	1432	1.63	
	2147	3.03	2121	3.34	2058	3.50	2037	3.80	
13 SU	0417	1.01	0340	1.25	0319	1.48	0250	1.67	13 SU
	1033	3.52	1003	3.79	0938	4.05	0918	4.28	
	1725	0.79	1650	1.07	1625	1.18	1557	1.36	
	2313	3.32	2246	3.64	2224	3.84	2200	4.15	
14 MO	0548	0.77	0506	1.02	0445	1.16	0415	1.33	14 MO
	1137	3.81	1110	4.10	1041	4.41	1025	4.68	
	1834	0.55	1758	0.79	1728	0.82	1700	0.97	
			2340	3.99	2316	4.26	2253	4.60	
15 TU	0008	3.66	0609	0.75	0541	0.80	0514	0.90	15 TU
	0648	0.54	1156	4.39	1126	4.76	1109	5.07	
	1224	4.07	1847	0.58	1814	0.52	1747	0.61	
	1924	0.40			2353	4.62	2332	5.00	
16 WE	0049	3.94	0022	4.27	0627	0.49	0600	0.51	16 WE
	0737	0.41	0658	0.54	1203	5.03	1146	5.41	
	1302	4.25	1234	4.60	1855	0.29	1827	0.32	
	2008	0.36	1929	0.46					

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TH	0124	4.15	0057	4.47	0026	4.91	0008	5.34	17 TH
	0822	0.36	0742	0.41	0709	0.27	0642	0.20	
	1337	4.37	1309	4.76	1237	5.22	1221	5.67	
	2050	0.35	2009	0.39	1934	0.14	1906	0.09	
18 FR	0157	4.31	0132	4.62	0100	5.13	0044	5.57	18 FR
	0906	0.35	0825	0.33	0750	0.13	0723	0.00	
	1412	4.44	1345	4.84	1313	5.31	1258	5.81	
	2130	0.35	2048	0.35	2013	0.04	1944	-0.05	
19 SA	0232	4.41	0209	4.70	0136	5.25	0122	5.69	19 SA
	0950	0.35	0907	0.31	0831	0.08	0803	-0.09	
	1451	4.44	1424	4.84	1353	5.29	1337	5.81	
	2209	0.35	2127	0.32	2051	0.01	2023	-0.11	
20 SU	0311	4.44	0249	4.71	0215	5.28	0201	5.70	20 SU
	1032	0.36	0949	0.32	0912	0.09	0844	-0.08	
	1534	4.35	1507	4.75	1435	5.18	1419	5.69	
	2248	0.34	2207	0.31	2129	0.04	2102	-0.08	
21 MO	0353	4.39	0334	4.67	0258	5.21	0243	5.61	21 MO
	1115	0.38	1031	0.36	0953	0.16	0925	0.00	
	1619	4.21	1553	4.59	1521	4.98	1503	5.46	
	2327	0.34	2247	0.33	2209	0.14	2141	0.04	
22 TU	0439	4.29	0421	4.57	0344	5.07	0328	5.44	22 TU
	1158	0.40	1115	0.44	1036	0.29	1007	0.17	
	1708	3.99	1645	4.35	1612	4.71	1553	5.14	
			2330	0.40	2251	0.33	2224	0.28	
23 WE	0009	0.38	0515	4.40	0436	4.82	0419	5.16	23 WE
	0529	4.10	1204	0.56	1125	0.51	1056	0.47	
	1246	0.46	1746	4.04	1715	4.34	1653	4.71	
	1806	3.68			2341	0.65	2314	0.68	
24 TH	0059	0.50	0020	0.57	0549	4.46	0524	4.77	24 TH
	0636	3.81	0622	4.15	1230	0.82	1200	0.86	
	1346	0.58	1305	0.75	1839	3.95	1812	4.25	
	1932	3.35	1905	3.70					

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 FR	0205	0.69	0126	0.81	0055	1.04	0023	1.14	25 FR
	0817	3.55	0745	3.89	0717	4.13	0652	4.39	
	1502	0.67	1425	0.90	1357	1.05	1331	1.16	
	2104	3.16	2040	3.50	2010	3.69	1951	3.97	
26 SA	0334	0.80	0254	0.98	0232	1.24	0202	1.43	26 SA
	0941	3.46	0917	3.77	0848	3.99	0830	4.24	
	1654	0.58	1611	0.85	1550	0.99	1519	1.14	
	2246	3.23	2219	3.58	2205	3.80	2136	4.07	
27 SU	0516	0.66	0437	0.90	0415	1.09	0348	1.31	27 SU
	1104	3.53	1045	3.87	1025	4.13	1004	4.42	
	1810	0.29	1732	0.58	1703	0.68	1638	0.84	
	2357	3.47	2329	3.82	2312	4.10	2246	4.39	
28 MO	0625	0.40	0549	0.65	0519	0.78	0457	0.97	28 MO
	1205	3.68	1146	4.04	1123	4.35	1101	4.68	
	1900	0.12	1824	0.37	1752	0.45	1727	0.59	
					2354	4.34	2327	4.66	
29 TU	0040	3.67	0015	4.02	0604	0.55	0542	0.68	29 TU
	0713	0.26	0637	0.46	1159	4.52	1137	4.88	
	1244	3.79	1226	4.17	1828	0.33	1804	0.43	
	1940	0.12	1902	0.30			2355	4.87	
30 WE	0110	3.79	0047	4.15	0022	4.51	0617	0.47	30 WE
	0751	0.24	0714	0.38	0640	0.40	1203	5.03	
	1312	3.89	1254	4.27	1224	4.64	1834	0.33	
	2012	0.21	1934	0.31	1859	0.28			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TH	0134	3.90	0111	4.25	0043	4.66	0020	5.05	1 TH
	0824	0.28	0746	0.36	0712	0.32	0647	0.34	
	1339	3.98	1319	4.37	1248	4.74	1229	5.15	
	2040	0.30	2002	0.33	1926	0.26	1901	0.25	
2 FR	0156	4.00	0136	4.34	0105	4.78	0047	5.17	2 FR
	0853	0.34	0815	0.37	0741	0.29	0715	0.26	
	1406	4.04	1345	4.43	1313	4.79	1257	5.21	
	○ 2103	0.33	2028	0.34	1951	0.25	1926	0.20	
3 SA	0220	4.08	0202	4.38	0129	4.83	0114	5.21	3 SA
	0920	0.37	0842	0.39	0807	0.29	0741	0.24	
	1434	4.04	1412	4.43	1339	4.78	1324	5.19	
	2127	0.33	2054	0.36	2015	0.25	1953	0.19	
4 SU	0246	4.10	0229	4.36	0154	4.83	0140	5.16	4 SU
	0947	0.39	0909	0.41	0833	0.32	0809	0.26	
	1502	3.99	1439	4.37	1408	4.70	1351	5.09	
	2154	0.33	2120	0.37	2041	0.27	2020	0.23	
5 MO	0315	4.07	0258	4.31	0222	4.78	0206	5.07	5 MO
	1017	0.40	0938	0.44	0900	0.36	0837	0.31	
	1532	3.89	1508	4.25	1437	4.58	1418	4.95	
	2223	0.32	2147	0.38	2108	0.31	2047	0.30	
6 TU	0346	4.00	0328	4.24	0251	4.70	0234	4.97	6 TU
	1049	0.41	1008	0.46	0929	0.41	0906	0.40	
	1605	3.73	1538	4.12	1508	4.43	1449	4.78	
	2253	0.32	2216	0.40	2136	0.38	2116	0.42	
7 WE	0420	3.89	0401	4.16	0324	4.60	0305	4.86	7 WE
	1121	0.42	1040	0.51	1000	0.49	0937	0.52	
	1641	3.54	1613	3.95	1543	4.24	1525	4.56	
	2323	0.34	2248	0.44	2206	0.49	2147	0.58	
8 TH	0457	3.75	0438	4.05	0402	4.45	0343	4.70	8 TH
	1155	0.44	1116	0.59	1033	0.62	1011	0.72	
	1722	3.33	1655	3.73	1625	4.00	1608	4.29	
	2357	0.39	2325	0.54	2242	0.68	2223	0.83	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 FR	0542 1236 1814	3.57 0.52 3.08	0522 1200 1748	3.88 0.74 3.46	0446 1117 1717 2330	4.22 0.84 3.70 0.99	0428 1056 1702 2312	4.47 1.01 3.97 1.17	9 FR
10 SA	0043 0641 1342 1929	0.54 3.33 0.65 2.85	0013 0620 1305 1903	0.74 3.66 0.93 3.22	0544 1226 1835	3.93 1.13 3.41	0526 1203 1821	4.17 1.34 3.69	10 SA
11 SU	0150 0812 1513 2119	0.76 3.14 0.68 2.89	0124 0746 1437 2050	0.97 3.48 1.00 3.23	0043 0723 1412 2032	1.32 3.70 1.20 3.44	0024 0700 1352 2008	1.51 3.95 1.45 3.71	11 SU
12 MO	0335 0956 1641 2245	0.82 3.26 0.53 3.22	0302 0926 1606 2216	1.02 3.58 0.83 3.56	0241 0904 1545 2155	1.36 3.85 0.98 3.81	0215 0841 1523 2132	1.57 4.07 1.22 4.08	12 MO
13 TU	0513 1106 1755 2342	0.61 3.54 0.32 3.60	0431 1038 1717 2312	0.82 3.86 0.58 3.93	0413 1012 1654 2249	1.05 4.18 0.65 4.24	0346 0954 1629 2228	1.25 4.42 0.86 4.53	13 TU
14 WE	0620 1157 1850	0.37 3.78 0.18	0538 1129 1811 2356	0.56 4.13 0.38 4.21	0515 1101 1743 2329	0.69 4.49 0.37 4.59	0449 1044 1718 2310	0.82 4.78 0.51 4.93	14 WE
15 TH	0026 0713 1239 1936	3.88 0.22 3.95 0.13	0632 1210 1856	0.36 4.33 0.25	0603 1141 1826	0.39 4.73 0.16	0537 1124 1800 2346	0.44 5.09 0.23 5.24	15 TH
16 FR	0102 0800 1316 2019	4.09 0.16 4.06 0.12	0033 0719 1247 1938	4.41 0.23 4.46 0.19	0004 0647 1217 1906	4.87 0.18 4.89 0.02	0621 1201 1840	0.16 5.30 0.03	16 FR

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SA	0136 0845 1353 2100	4.22 0.14 4.11 0.11	0109 0803 1325 2020	4.53 0.17 4.52 0.14	0039 0730 1255 1945	5.07 0.05 4.96 -0.06	0023 0703 1239 1919	5.46 -0.02 5.41 -0.09	17 SA
18 SU	0212 0930 1433 2141	4.30 0.14 4.10 0.11	0147 0847 1406 2101	4.59 0.14 4.50 0.13	0116 0812 1336 2025	5.16 0.00 4.93 -0.06	0102 0744 1320 1959	5.55 -0.10 5.40 -0.11	18 SU
19 MO	0252 1014 1517 2222	4.29 0.15 4.00 0.13	0230 0930 1451 2143	4.58 0.16 4.40 0.14	0157 0854 1421 2105	5.15 0.01 4.80 0.00	0143 0826 1404 2040	5.53 -0.09 5.27 -0.03	19 MO
20 TU	0336 1057 1604 2303	4.21 0.17 3.83 0.16	0316 1013 1539 2225	4.49 0.21 4.22 0.20	0241 0936 1508 2146	5.04 0.09 4.60 0.14	0227 0908 1450 2121	5.40 0.01 5.05 0.13	20 TU
21 WE	0423 1141 1655 2346	4.06 0.19 3.61 0.25	0405 1058 1631 2310	4.36 0.29 3.99 0.31	0328 1020 1601 2229	4.85 0.23 4.33 0.37	0312 0952 1541 2205	5.19 0.19 4.75 0.40	21 WE
22 TH	0514 1229 1755	3.85 0.25 3.33	0459 1147 1732	4.16 0.41 3.70	0421 1109 1706 2320	4.58 0.44 4.01 0.70	0403 1041 1640 2256	4.89 0.47 4.37 0.79	22 TH
23 FR	0035 0619 1326 1916	0.41 3.55 0.34 3.06	0002 0602 1245 1848	0.49 3.90 0.57 3.42	0531 1212 1824	4.22 0.71 3.69	0506 1144 1756	4.51 0.82 3.98	23 FR
24 SA	0142 0748 1437 2043	0.62 3.27 0.41 2.92	0108 0718 1359 2020	0.72 3.61 0.71 3.27	0034 0653 1332 1955	1.08 3.88 0.92 3.50	0006 0627 1308 1933	1.21 4.13 1.09 3.76	24 SA

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SU	0311	0.72	0231	0.86	0208	1.26	0142	1.45	25 SU
	0909	3.12	0846	3.44	0819	3.68	0801	3.93	
	1610	0.39	1529	0.72	1514	0.93	1443	1.13	
	2221	3.02	2154	3.37	2141	3.64	2114	3.88	
26 MO	0447	0.59	0404	0.82	0351	1.14	0323	1.36	26 MO
	1031	3.13	1016	3.48	0956	3.75	0937	4.02	
	1734	0.20	1655	0.55	1634	0.71	1609	0.93	
	2328	3.28	2300	3.61	2246	3.93	2222	4.18	
27 TU	0559	0.34	0520	0.61	0458	0.84	0435	1.05	27 TU
	1135	3.26	1118	3.63	1057	3.93	1037	4.23	
	1826	0.07	1749	0.38	1722	0.52	1659	0.72	
			2345	3.81	2326	4.16	2302	4.44	
28 WE	0011	3.49	0610	0.42	0541	0.60	0519	0.78	28 WE
	0647	0.17	1159	3.76	1134	4.09	1113	4.41	
	1216	3.38	1827	0.29	1757	0.41	1734	0.56	
	1904	0.06			2353	4.34	2330	4.65	
29 TH	0042	3.64	0016	3.96	0616	0.44	0553	0.58	29 TH
	0725	0.12	0647	0.32	1200	4.21	1141	4.56	
	1248	3.49	1228	3.88	1826	0.34	1803	0.44	
	1935	0.10	1858	0.25			2355	4.82	
30 FR	0107	3.75	0042	4.08	0015	4.49	0623	0.44	30 FR
	0758	0.14	0718	0.28	0647	0.34	1207	4.67	
	1316	3.57	1254	3.97	1224	4.31	1830	0.34	
	2001	0.13	1926	0.23	1851	0.28			
31 SA	0131	3.83	0108	4.16	0039	4.60	0022	4.92	31 SA
	0827	0.18	0747	0.27	0715	0.30	0650	0.36	
	1343	3.62	1320	4.03	1250	4.36	1235	4.72	
	○ 2025	0.14	1953	0.22	1916	0.24	1856	0.28	○

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SU	0155	3.87	0135	4.19	0103	4.63	0049	4.94	1 SU
	0854	0.21	0815	0.28	0741	0.29	0717	0.33	
	1409	3.62	1347	4.03	1316	4.35	1303	4.70	
	2051	0.12	2019	0.23	1941	0.23	1923	0.27	
2 MO	0221	3.88	0202	4.16	0129	4.62	0115	4.88	2 MO
	0922	0.22	0843	0.30	0808	0.30	0745	0.34	
	1437	3.60	1414	3.97	1344	4.29	1328	4.62	
	2120	0.11	2047	0.24	2009	0.23	1951	0.30	
3 TU	0251	3.85	0231	4.09	0157	4.57	0141	4.80	3 TU
	0953	0.21	0913	0.32	0837	0.32	0815	0.38	
	1510	3.52	1442	3.87	1414	4.20	1355	4.52	
	2152	0.10	2117	0.25	2039	0.26	2021	0.37	
4 WE	0325	3.78	0303	4.02	0229	4.50	0210	4.71	4 WE
	1027	0.21	0946	0.34	0908	0.36	0846	0.45	
	1546	3.38	1515	3.76	1448	4.07	1428	4.38	
	2225	0.12	2150	0.28	2111	0.33	2052	0.48	
5 TH	0402	3.66	0338	3.93	0304	4.39	0244	4.60	5 TH
	1102	0.22	1020	0.37	0942	0.42	0920	0.56	
	1625	3.20	1553	3.61	1526	3.91	1506	4.21	
	2259	0.16	2226	0.33	2145	0.44	2126	0.64	
6 FR	0441	3.51	0418	3.83	0344	4.26	0323	4.46	6 FR
	1139	0.24	1058	0.44	1019	0.53	0956	0.71	
	1708	3.01	1637	3.45	1609	3.73	1551	4.00	
	2338	0.24	2307	0.42	2224	0.62	2205	0.85	
7 SA	0528	3.34	0504	3.70	0429	4.07	0409	4.27	7 SA
	1223	0.29	1144	0.53	1105	0.68	1041	0.91	
	1801	2.84	1730	3.27	1702	3.52	1644	3.78	
			2358	0.57	2314	0.87	2255	1.12	
8 SU	0026	0.38	0559	3.53	0525	3.83	0506	4.04	8 SU
	0624	3.15	1244	0.64	1211	0.85	1146	1.14	
	1325	0.35	1840	3.13	1815	3.35	1756	3.60	
	1912	2.72							

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 MO	0133	0.55	0106	0.72	0026	1.13	0006	1.36	9 MO
	0740	3.00	0712	3.38	0646	3.63	0625	3.85	
	1442	0.35	1401	0.67	1337	0.89	1313	1.23	
	2049	2.80	2017	3.19	2002	3.44	1936	3.66	
10 TU	0305	0.59	0230	0.74	0207	1.16	0141	1.40	10 TU
	0915	3.03	0844	3.39	0824	3.68	0801	3.89	
	1558	0.23	1521	0.56	1456	0.74	1439	1.08	
	2211	3.12	2139	3.48	2119	3.77	2056	3.97	
11 WE	0435	0.42	0353	0.60	0332	0.93	0308	1.16	11 WE
	1029	3.21	0959	3.57	0934	3.88	0914	4.11	
	1709	0.09	1630	0.38	1606	0.52	1546	0.81	
	2311	3.46	2239	3.81	2215	4.14	2156	4.35	
12 TH	0546	0.22	0503	0.40	0440	0.64	0415	0.82	12 TH
	1126	3.39	1057	3.77	1030	4.10	1012	4.36	
	1809	-0.01	1730	0.22	1704	0.31	1641	0.54	
	2359	3.73	2326	4.06	2301	4.44	2242	4.70	
13 FR	0645	0.08	0602	0.23	0536	0.39	0509	0.52	13 FR
	1214	3.52	1144	3.93	1116	4.27	1058	4.58	
	1901	-0.06	1821	0.11	1752	0.15	1728	0.31	
					2340	4.67	2322	4.96	
14 SA	0040	3.90	0008	4.23	0624	0.21	0557	0.29	14 SA
	0736	0.01	0654	0.13	1158	4.39	1140	4.74	
	1256	3.61	1226	4.03	1836	0.03	1812	0.16	
	1947	-0.09	1907	0.05					
15 SU	0117	3.99	0047	4.32	0019	4.81	0002	5.12	15 SU
	0824	-0.01	0741	0.09	0709	0.10	0642	0.14	
	1336	3.65	1308	4.07	1239	4.45	1221	4.82	
	2031	-0.09	1952	0.02	1919	-0.03	1855	0.08	
16 MO	0156	4.03	0128	4.35	0059	4.87	0043	5.17	16 MO
	0910	0.00	0827	0.08	0753	0.06	0727	0.09	
	1419	3.64	1351	4.05	1323	4.42	1306	4.81	
	2114	-0.08	2036	0.03	2001	-0.01	1938	0.09	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TU	0238	3.99	0212	4.31	0142	4.82	0127	5.12	17 TU
	0955	0.02	0912	0.11	0837	0.09	0811	0.12	
	1505	3.55	1437	3.95	1409	4.30	1352	4.70	
	2157	-0.03	2120	0.08	2044	0.08	2021	0.19	
18 WE	0323	3.88	0300	4.20	0227	4.69	0212	4.98	18 WE
	1040	0.04	0956	0.16	0921	0.18	0855	0.21	
	1554	3.40	1526	3.79	1458	4.13	1439	4.52	
	2240	0.05	2205	0.17	2126	0.24	2105	0.36	
19 TH	0411	3.74	0349	4.06	0315	4.50	0259	4.78	19 TH
	1124	0.07	1041	0.24	1006	0.29	0940	0.36	
	1645	3.23	1617	3.60	1551	3.92	1529	4.29	
	2324	0.18	2251	0.30	2210	0.45	2150	0.60	
20 FR	0500	3.55	0441	3.88	0407	4.27	0349	4.53	20 FR
	1211	0.10	1128	0.33	1054	0.44	1028	0.56	
	1741	3.03	1714	3.40	1652	3.69	1626	4.02	
			2342	0.45	2259	0.73	2240	0.89	
21 SA	0011	0.34	0537	3.66	0509	3.99	0446	4.24	21 SA
	0555	3.32	1221	0.43	1150	0.61	1125	0.80	
	1302	0.15	1821	3.21	1802	3.49	1734	3.77	
	1849	2.85					2345	1.20	
22 SU	0111	0.52	0042	0.62	0006	1.04	0555	3.93	22 SU
	0706	3.05	0642	3.41	0619	3.70	1234	1.01	
	1402	0.21	1323	0.53	1257	0.76	1855	3.61	
	2005	2.74	1939	3.10	1918	3.37			
23 MO	0232	0.63	0154	0.74	0129	1.21	0106	1.40	23 MO
	0822	2.83	0754	3.19	0731	3.46	0712	3.69	
	1508	0.24	1431	0.60	1405	0.85	1346	1.12	
	2124	2.79	2102	3.14	2046	3.42	2022	3.64	
24 TU	0349	0.59	0308	0.76	0248	1.21	0224	1.41	24 TU
	0935	2.75	0915	3.09	0853	3.36	0836	3.62	
	1615	0.22	1542	0.58	1521	0.84	1503	1.11	
	2234	2.97	2209	3.30	2154	3.61	2132	3.83	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 WE	0507	0.43	0423	0.66	0416	1.02	0349	1.25	25 WE
	1041	2.79	1027	3.15	1004	3.43	0949	3.71	
	1720	0.15	1647	0.49	1629	0.73	1609	0.97	
	2325	3.18	2258	3.49	2240	3.84	2221	4.07	
26 TH	0607	0.24	0526	0.50	0508	0.78	0445	1.00	26 TH
	1135	2.90	1117	3.27	1052	3.56	1037	3.86	
	1807	0.08	1735	0.37	1710	0.60	1652	0.81	
			2336	3.67	2314	4.03	2256	4.29	
27 FR	0003	3.37	0610	0.37	0546	0.58	0523	0.79	27 FR
	0650	0.11	1154	3.40	1128	3.69	1113	4.00	
	1216	3.02	1813	0.27	1743	0.48	1727	0.66	
	1845	0.02			2344	4.19	2328	4.45	
28 SA	0036	3.50	0009	3.81	0618	0.46	0556	0.65	28 SA
	0726	0.05	0645	0.28	1159	3.79	1145	4.11	
	1251	3.10	1227	3.50	1814	0.39	1758	0.54	
	1918	-0.01	1847	0.21			2358	4.54	
29 SU	0105	3.56	0040	3.88	0013	4.27	0626	0.57	29 SU
	0758	0.05	0718	0.25	0649	0.40	1215	4.15	
	1320	3.14	1257	3.55	1228	3.84	1827	0.48	
	1948	-0.02	1918	0.19	1843	0.33			
30 MO	0132	3.58	0110	3.90	0040	4.30	0027	4.54	30 MO
	0828	0.08	0749	0.26	0718	0.39	0655	0.54	
	1347	3.17	1325	3.56	1256	3.84	1243	4.14	
	○ 2018	-0.03	1947	0.18	1911	0.29	1856	0.46	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TU	0159	3.59	0139	3.88	0107	4.30	0054	4.50	1 TU
	0859	0.09	0820	0.26	0748	0.38	0726	0.53	
	1416	3.19	1353	3.54	1324	3.83	1309	4.11	
	2050	-0.06	2018	0.18	1942	0.27	1927	0.47	
2 WE	0230	3.60	0209	3.84	0137	4.28	0121	4.46	2 WE
	0932	0.08	0853	0.27	0820	0.37	0759	0.54	
	1450	3.17	1423	3.50	1356	3.80	1338	4.07	
	2125	-0.07	2053	0.18	2016	0.27	2000	0.52	
3 TH	0307	3.56	0243	3.80	0211	4.24	0152	4.40	3 TH
	1008	0.07	0929	0.27	0855	0.38	0834	0.58	
	1530	3.10	1458	3.43	1432	3.73	1412	3.99	
	2202	-0.04	2130	0.21	2053	0.32	2036	0.61	
4 FR	0347	3.46	0321	3.74	0249	4.16	0228	4.33	4 FR
	1046	0.08	1006	0.29	0932	0.42	0911	0.64	
	1613	2.96	1539	3.34	1512	3.62	1452	3.88	
	2242	0.03	2210	0.26	2132	0.43	2114	0.73	
5 SA	0430	3.33	0402	3.66	0330	4.05	0309	4.22	5 SA
	1126	0.10	1046	0.32	1013	0.47	0950	0.74	
	1658	2.83	1623	3.24	1557	3.51	1537	3.75	
	2324	0.12	2254	0.34	2214	0.58	2156	0.87	
6 SU	0516	3.19	0447	3.56	0415	3.91	0354	4.10	6 SU
	1211	0.11	1130	0.36	1058	0.54	1034	0.84	
	1749	2.73	1714	3.15	1647	3.40	1628	3.64	
			2345	0.43	2304	0.75	2245	1.02	
7 MO	0013	0.24	0538	3.44	0506	3.74	0446	3.95	7 MO
	0607	3.05	1222	0.40	1154	0.59	1130	0.93	
	1305	0.11	1815	3.11	1752	3.34	1732	3.57	
	1849	2.70					2348	1.15	
8 TU	0115	0.35	0045	0.50	0008	0.91	0554	3.80	8 TU
	0708	2.92	0640	3.31	0612	3.58	1237	0.96	
	1409	0.08	1325	0.41	1302	0.61	1900	3.63	
	2011	2.78	1938	3.17	1925	3.43			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 WE	0235	0.38	0158	0.53	0133	0.96	0107	1.19	9 WE
	0829	2.85	0800	3.24	0742	3.52	0720	3.75	
	1518	0.00	1437	0.37	1414	0.53	1352	0.90	
	2132	3.01	2058	3.37	2039	3.67	2016	3.86	
10 TH	0358	0.28	0317	0.45	0254	0.82	0229	1.06	10 TH
	0948	2.89	0917	3.27	0854	3.56	0833	3.81	
	1626	-0.08	1548	0.26	1521	0.42	1501	0.76	
	2236	3.27	2203	3.61	2140	3.93	2119	4.13	
11 FR	0512	0.13	0429	0.32	0405	0.63	0339	0.84	11 FR
	1053	2.97	1024	3.36	0956	3.65	0938	3.92	
	1729	-0.14	1651	0.15	1623	0.31	1602	0.60	
	2331	3.47	2258	3.81	2233	4.16	2214	4.38	
12 SA	0617	0.02	0534	0.20	0509	0.45	0442	0.63	12 SA
	1149	3.05	1121	3.46	1052	3.74	1035	4.04	
	1827	-0.18	1749	0.07	1720	0.21	1657	0.46	
			2346	3.93	2319	4.32	2302	4.57	
13 SU	0020	3.60	0632	0.13	0604	0.31	0538	0.47	13 SU
	0715	-0.05	1210	3.54	1142	3.83	1124	4.15	
	1239	3.13	1840	0.02	1811	0.14	1748	0.35	
	1918	-0.21					2346	4.69	
14 MO	0103	3.68	0031	4.00	0003	4.42	0628	0.35	14 MO
	0806	-0.08	0724	0.10	0654	0.22	1210	4.23	
	1324	3.19	1256	3.59	1228	3.89	1836	0.29	
	2006	-0.21	1929	0.00	1858	0.09			
15 TU	0144	3.70	0114	4.02	0046	4.46	0030	4.73	15 TU
	0854	-0.08	0812	0.10	0740	0.19	0715	0.30	
	1409	3.21	1341	3.59	1314	3.90	1256	4.25	
	2051	-0.19	2016	0.03	1943	0.10	1923	0.30	
16 WE	0226	3.67	0159	3.99	0130	4.42	0115	4.70	16 WE
	0939	-0.06	0857	0.13	0826	0.22	0801	0.32	
	1455	3.17	1426	3.53	1401	3.84	1342	4.21	
	2135	-0.12	2101	0.09	2027	0.18	2009	0.37	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TH	0310	3.60	0246	3.91	0215	4.33	0200	4.61	17 TH
	1023	-0.02	0941	0.17	0910	0.27	0846	0.38	
	1541	3.09	1513	3.43	1448	3.74	1428	4.10	
	2218	-0.01	2146	0.19	2109	0.32	2053	0.50	
18 FR	0355	3.48	0333	3.80	0301	4.19	0245	4.47	18 FR
	1106	0.00	1024	0.22	0953	0.34	0929	0.47	
	1627	2.98	1601	3.32	1536	3.62	1515	3.97	
	2300	0.11	2231	0.29	2151	0.48	2137	0.66	
19 SA	0438	3.34	0420	3.67	0347	4.02	0330	4.30	19 SA
	1147	0.02	1105	0.26	1034	0.40	1011	0.57	
	1713	2.88	1650	3.22	1627	3.50	1603	3.82	
	2341	0.24	2315	0.39	2233	0.66	2220	0.85	
20 SU	0522	3.18	0507	3.52	0437	3.83	0417	4.10	20 SU
	1227	0.04	1147	0.31	1117	0.48	1055	0.71	
	1804	2.77	1741	3.13	1723	3.39	1657	3.68	
					2321	0.87	2309	1.05	
21 MO	0024	0.37	0003	0.49	0532	3.60	0510	3.86	21 MO
	0611	2.96	0556	3.33	1206	0.59	1146	0.86	
	1312	0.08	1233	0.38	1824	3.31	1758	3.57	
	1905	2.68	1840	3.05					
22 TH	0121	0.50	0059	0.59	0030	1.06	0010	1.24	22 TH
	0713	2.71	0652	3.10	0632	3.36	0611	3.61	
	1405	0.14	1328	0.48	1304	0.71	1245	1.02	
	2015	2.64	1945	3.00	1928	3.27	1904	3.51	
23 WE	0242	0.56	0204	0.67	0143	1.15	0120	1.35	23 WE
	0827	2.50	0756	2.88	0735	3.14	0716	3.41	
	1505	0.18	1430	0.55	1403	0.80	1347	1.12	
	2121	2.69	2052	3.03	2036	3.32	2012	3.55	
24 TH	0350	0.50	0310	0.68	0247	1.12	0228	1.35	24 TH
	0934	2.40	0905	2.76	0843	3.03	0827	3.32	
	1605	0.17	1533	0.55	1501	0.82	1450	1.12	
	2222	2.83	2155	3.14	2137	3.45	2118	3.69	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 FR	0456	0.36	0416	0.61	0359	0.98	0340	1.22	25 FR
	1038	2.42	1017	2.77	0953	3.05	0942	3.36	
	1702	0.10	1632	0.47	1600	0.76	1551	1.02	
	2316	3.00	2250	3.30	2229	3.63	2214	3.88	
26 SA	0600	0.18	0519	0.47	0506	0.78	0444	1.02	26 SA
	1137	2.52	1116	2.89	1051	3.15	1039	3.48	
	1756	0.01	1726	0.36	1655	0.64	1644	0.89	
			2336	3.45	2313	3.80	2259	4.05	
27 SU	0002	3.15	0611	0.34	0549	0.61	0529	0.85	27 SU
	0651	0.03	1202	3.01	1136	3.27	1122	3.60	
	1225	2.62	1811	0.27	1740	0.54	1727	0.77	
	1842	-0.05			2350	3.90	2336	4.16	
28 MO	0041	3.24	0016	3.55	0626	0.51	0605	0.75	28 MO
	0732	-0.02	0653	0.27	1213	3.36	1156	3.67	
	1301	2.70	1239	3.11	1817	0.45	1803	0.68	
	1920	-0.07	1850	0.22					
29 TU	0113	3.28	0052	3.60	0023	3.96	0009	4.21	29 TU
	0808	-0.01	0730	0.25	0701	0.46	0639	0.68	
	1331	2.77	1311	3.17	1244	3.43	1227	3.72	
	1954	-0.09	1925	0.19	1851	0.38	1837	0.63	
30 WE	0143	3.32	0123	3.62	0052	4.01	0038	4.23	30 WE
	0843	0.01	0805	0.24	0735	0.42	0713	0.64	
	1401	2.86	1340	3.22	1313	3.49	1256	3.77	
	○ 2028	-0.11	2000	0.16	1925	0.31	1912	0.58	○
31 TH	0215	3.38	0154	3.65	0122	4.05	0107	4.25	31 TH
	0918	0.01	0841	0.22	0810	0.37	0749	0.59	
	1436	2.93	1411	3.26	1344	3.54	1326	3.81	
	2106	-0.13	2037	0.14	2003	0.27	1949	0.56	

CONVERSION TABLE, FEET TO METRES

Feet	Metres	Feet	Metres	Feet	Metres	Feet	Metres
0'0"	0.00	8'0"	2.44	16'0"	4.88	24'0"	7.32
3"	0.08	3"	2.51	3"	4.95	3"	7.39
6"	0.15	6"	2.59	6"	5.03	6"	7.47
9"	0.23	9"	2.67	9"	5.11	9"	7.54
1'0"	0.30	9'0"	2.74	17'0"	5.18	25'0"	7.62
3"	0.40	3"	2.82	3"	5.26	3"	7.70
6"	0.49	6"	2.90	6"	5.33	6"	7.77
9"	0.58	9"	2.97	9"	5.41	9"	7.85
2'0"	0.61	10'0"	3.05	18'0"	5.49	26'0"	7.92
3"	0.70	3"	3.12	3"	5.56	3"	8.00
6"	0.79	6"	3.20	6"	5.64	6"	8.08
9"	0.88	9"	3.28	9"	5.71	9"	8.15
3'0"	0.91	11'0"	3.35	19'0"	5.79	27'0"	8.23
3"	1.01	3"	3.43	3"	5.87	3"	8.31
6"	1.10	6"	3.51	6"	5.94	6"	8.38
9"	1.19	9"	3.58	9"	6.02	9"	8.46
4'0"	1.22	12'0"	3.66	20'0"	6.10	28'0"	8.53
3"	1.31	3"	3.73	3"	6.17	3"	8.61
6"	1.40	6"	3.81	6"	6.25	6"	8.69
9"	1.49	9"	3.89	9"	6.32	9"	8.76
5'0"	1.52	13'0"	3.96	21'0"	6.40	29'0"	8.84
3"	1.60	3"	4.04	3"	6.48	3"	8.92
6"	1.68	6"	4.11	6"	6.55	6"	8.99
9"	1.75	9"	4.19	9"	6.63	9"	9.07
6'0"	1.83	14'0"	4.27	22'0"	6.71	30'0"	9.14
3"	1.91	3"	4.34	3"	6.78	3"	9.22
6"	1.98	6"	4.42	6"	6.86	6"	9.30
9"	2.06	9"	4.50	9"	6.93	9"	9.37
7'0"	2.13	15'0"	4.57	23'0"	7.01	31'0"	9.45
3"	2.21	3"	4.65	3"	7.09	3"	9.52
6"	2.29	6"	4.72	6"	7.16	6"	9.60
9"	2.36	9"	4.80	9"	7.24	9"	9.68

LIST OF WRECKS IN KARNAPHULI RIVER AND OUTER ANCHORAGE AREA

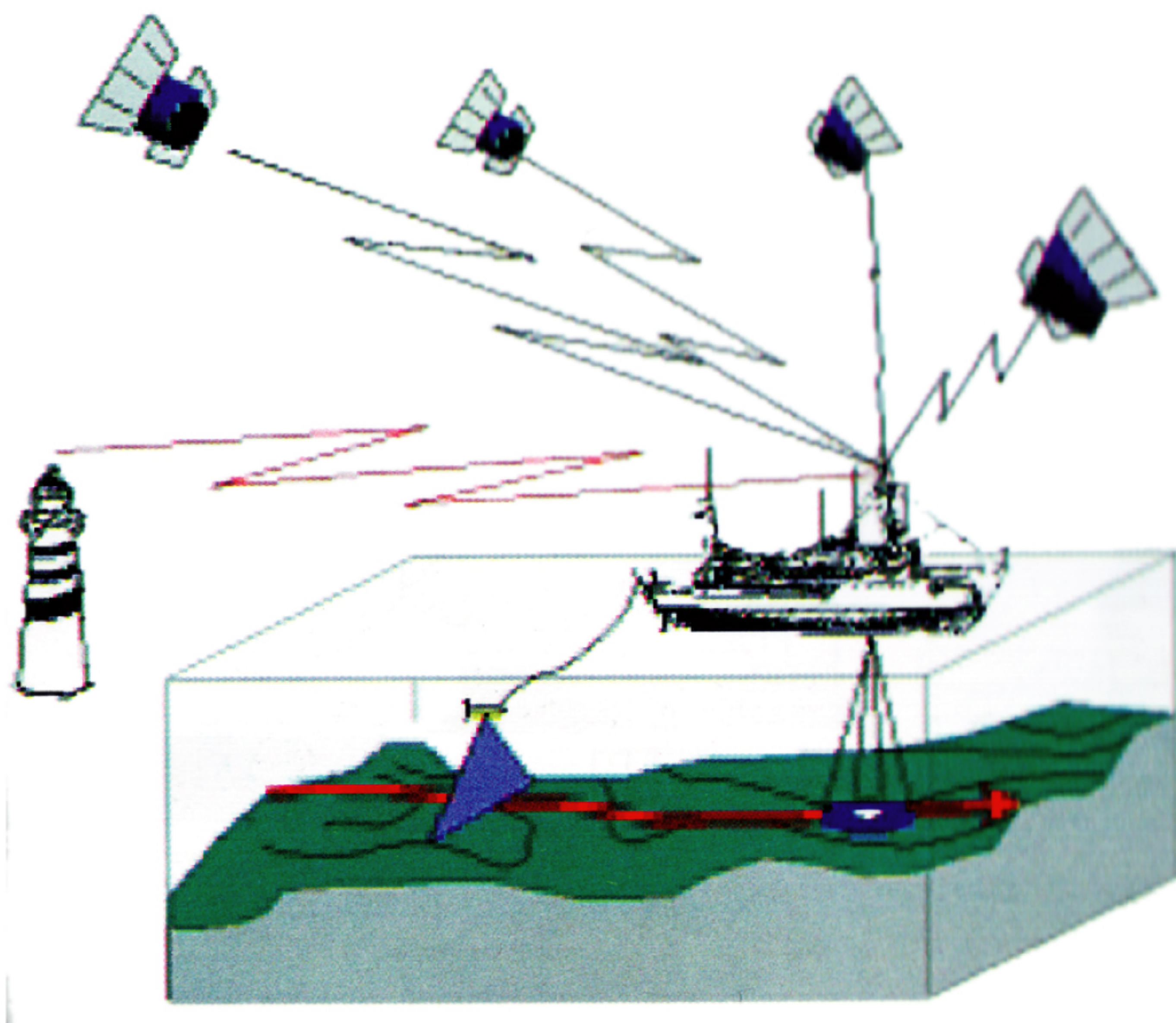
(Based on Hydrographic Survey Charts: 2012-13)

Co-ordinate system: BUTM

Ellipsoid: WGS 84

Sl.	Name of Wrecks	Geo-Position		Location
		Latitude	Longitude	
1	S. S. Thetic	22° 08' 00.600"	091° 45' 45.000"	Anchorage Area "C"
2	MV Kawana	22° 12' 37.469"	091° 47' 59.915"	Outer Bar Area
3	MV United Star	22° 12' 35.213"	091° 48' 03.784"	Outer Bar Area
4	MV Tina	22° 14' 23.346"	091° 46' 21.674"	Out side of Anchorage "A"
5	MV Sea Master-1	22° 15' 25.642"	091° 45' 43.008"	Out side of Anchorage "A"
6	MV Bangal Bridge	22° 18' 13.920"	091° 43' 03.598"	Anchorage Area "A"
7	MV Firoz Farjana	22° 14' 09.048"	091° 45' 58.779"	Anchorage Area "A"
8	MV Lita	22° 15' 29.936"	091° 45' 47.514"	Outside Anchorage Area "A"
9	MV Hang Gang-3	22° 15' 23.592"	091° 43' 49.198"	Anchorage Area "A"
10	MV Vishva Kusum	22° 15' 33.901"	091° 44' 18.058"	Anchorage Area "A"
11	MV Fortune	22° 17' 14.730"	091° 44' 02.598"	Anchorage Area "A"
12	MV BIWTC-1063	22° 17' 37.453"	091° 42' 46.430"	Anchorage Area "A"
13	MV Sea Horse	22° 18' 46.745"	091° 49' 01.063"	Near National Cement Factory
14	MV Ocan Pearl	22° 14' 49.954"	091° 46' 41.182"	Near Patenga Seabeach
15	MV Hyang Ro Bow	22° 12' 24.174"	091° 43' 45.426"	Anchorage Area "B"
16	MV Chattagram	22° 14' 13.860"	091° 45' 35.999"	Anchorage Area "A"
17	MV Sea Samrat	22° 15' 27.834"	091° 45' 41.500"	Outside of Anchorage "A"
18	MV Kader	22° 17' 13.736"	091° 43' 28.125"	Anchorage Area "A"
19	MV Mayur pankhi	22° 10' 26.134"	091° 48' 22.755"	Near Gohira
20	MV Sristy Sohan	22° 17' 58.290"	091° 43' 42.733"	Anchorage Area "A"
21	Unknown Wreck	22° 14' 09.600"	091° 46' 31.199"	Outside of Anchorage "A"

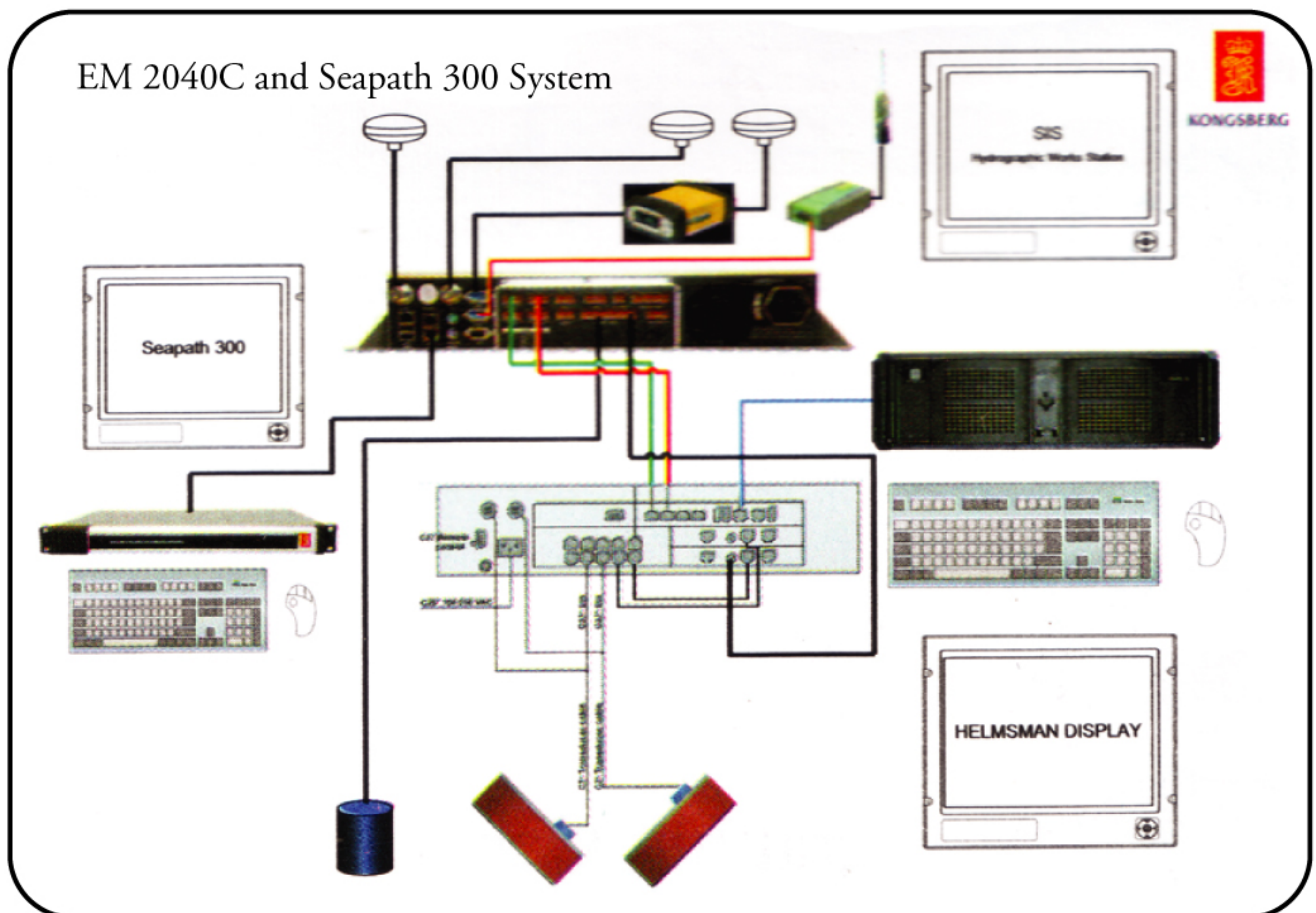
*Auto Tide Gauge Station
&
Hydrographic Survey Equipment*



**Hydrographic Department
CHITTAGONG PORT AUTHORITY**



Remotely Operated Vehicle: **RB-600 (Eprons, Latvia)**



Multi-Beam Echo-Sounder: **Kongsberg- EM 2040C**



Multi-Parameter Water quality measuring meter



Differential Global Positioning System (DGPS)- **JAVAD GNSS**



Acoustic Doppler Current Profiler- **SonTek ADP**



Digital Level - **Sokkia SDL-30**



Side Scan Sonar - **Edgetech 4125**



Sound Velocity Profiler- **AML Minos.X**



Sub Bottom Profiler- **Edgetech 3100P**



Echo Sounder- **Navisound 420**



Auto Tide Gauge Station at **Kalurghat**



Auto Tide Gauge Station at **Dock Office**



Auto Tide Gauge Station at **Khal 18**



Auto Tide Gauge Station at **Kaptai**





CHITTAGONG PORT LIMIT AREA

KARNAPHULI & OUTER ANCHORAGE

