

KARNAPHULI RIVER

TIDE TABLES

2023



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

2023



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CHITTAGONG PORT AUTHORITY

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Tide Tables 2023

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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Department of Hydrography
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Bangladesh

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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.

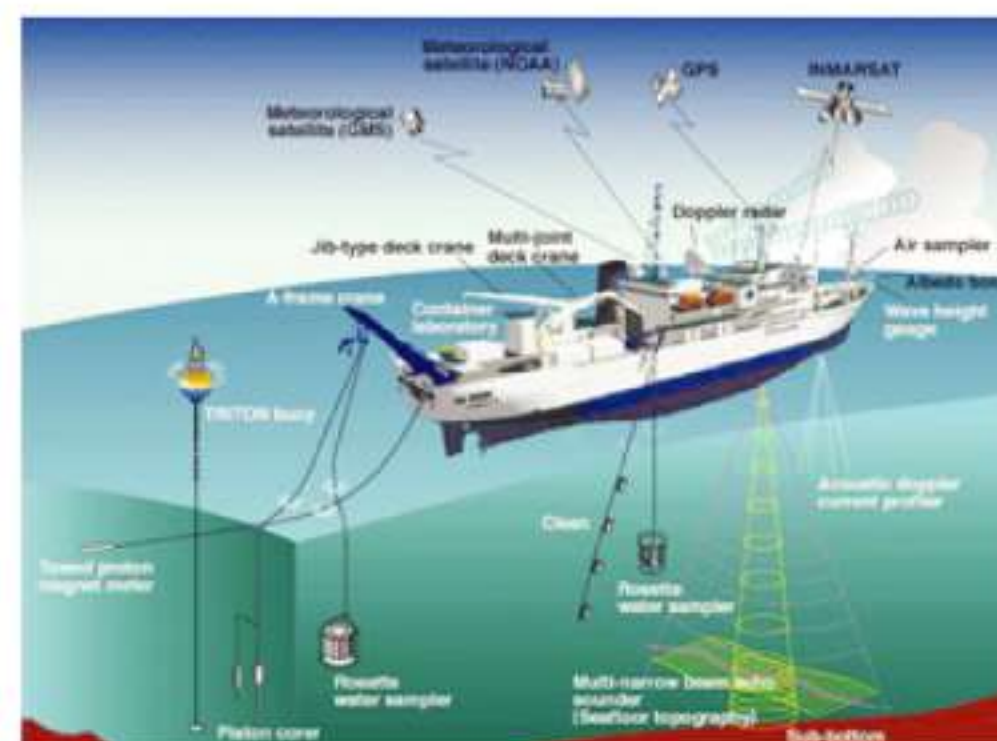
Important Telephone Number

- | | |
|-----------------------------|-----------------|
| • 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 identify 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 requirement. 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

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

Physical Properties

Length (OA): 83.5 m

Length (BP): 80 m

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 3.0.22 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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PHASES OF THE MOON 2023
(DAY: HOUR: MINUTE)

MONTH	NEW MOON	FULL MOON
January	22:02:53	07:05:08
February	20:13:06	06:00:29
March	21:23:23	07:18:40
April	20:10:12	06:10:35
May	19:21:53	05:23:34
June	18:10:37	04:09:42
July	18:00:32	03:17:39
August	16:15:38	02:00:31
		31:07:35
September	15:07:40	29:15:57
October	14:23:55	29:02:24
November	13:15:27	27:15:16
December	13:05:32	27:06:33

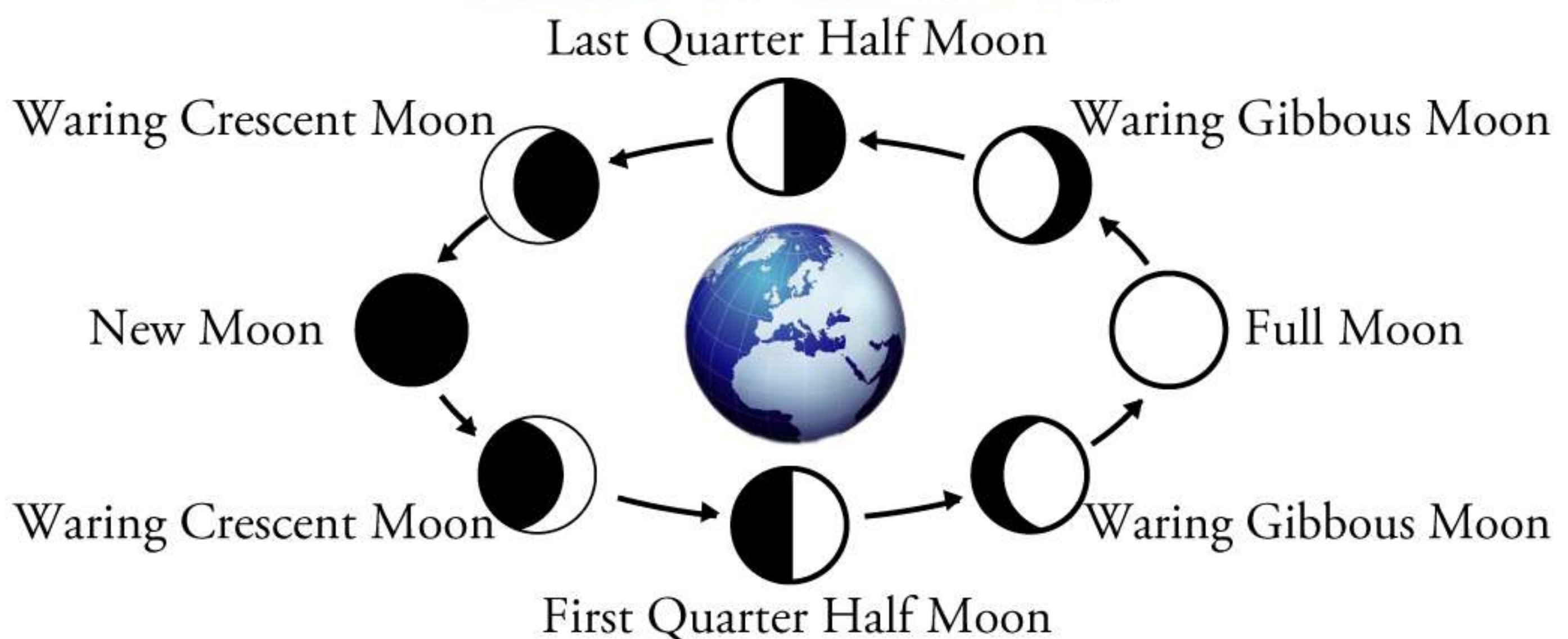
PHASES OF THE MOON 2023
(DAY: HOUR: MINUTE)

Month	First Qtr.	Last Qtr.
January	28:21:19	15:08:10
February	27:14:06	13:22:01
March	29:08:32	15:08:08
April	28:03:20	13:15:11
May	27:21:22	12:20:28
June	26:13:50	11:01:31
July	26:04:07	10:07:48
August	24:15:57	08:16:28
September	23:01:32	07:04:21
October	22:09:29	06:19:48
November	20:16:50	05:14:37
December	20:00:39	05:11:49

LIST OF CPA TIDE GAUGE STATION

SL	TIDE GAUGE STATION (AUTO)	POSITION(AP.)
01	KHAL NO- 18	22°13'33"N 91°48'18"E
02	KHAL NO- 10	22°16'1.5"N 91°49'27"E
03	KALURGHAT	22°23'51"N 91°53'17"E
04	KAPTAI	22°29'37.5"N 92°11'34.5"E
05	SADARGHAT	22°19'27"N 91°50'0.5"E
06	DOCK OFFICE	22°18'06.8"N 91°47'47.7"E
07	SITAKUNDA	22°-30'-01.74"N 091°-41'-32.70"E
08	SANGU RIVER	22°-08'-11.19516"N 091°-50'-36.21768"E
09	MATARBARI	21°-42'-18.6981"N 091°-52'-24.5324"E
10	KUTUBDIA	21°-49'-21.26388"N 091°-54'-36.11016"E
11	REZUKHAL	21° 17' 41.892"N 091°03'4.787"E
12	BAY TERMINAL	22° 19' -44.802"N 091°-45'-14.089"E

PHASES OF THE MOON



HIGHEST & LOWEST TIDE OF 2022
IN SELECTED TIDE STATION

KALURGHAT AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
4.97	15:10	14/08/22	-0.65	10:35	02/03/21

SADARGHAT STATION (MANUAL)

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
5.34	14:20	14/08/22	-0.42	08:50	04/03/22

KHAL NO-10 AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
5.68	15:00	15/10/22	0.01	10:15	21/02/22

KHAL NO-18 AUTO TIDE STATION

HIGHEST			LOWEST		
Ht(m).	Time	Date	Ht(m).	Time	Date
6.35	13:40	14/08/22	0.03	08:50	05/03/22

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 | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SU	0354	0.28	0313	0.47	0250	0.84	0226	1.08	1 SU
	0933	2.56	0911	2.93	0843	3.16	0829	3.42	
	1612	0.07	1536	0.42	1507	0.66	1450	0.96	
	2225	2.98	2157	3.31	2134	3.58	2118	3.81	
2 MO	0513	0.20	0429	0.46	0413	0.77	0349	1.02	2 MO
	1043	2.46	1026	2.83	0956	3.05	0949	3.34	
	1718	0.10	1643	0.44	1618	0.70	1601	0.98	
	2322	3.03	2255	3.34	2233	3.63	2218	3.89	
3 TU	0619	0.07	0537	0.38	0515	0.63	0453	0.88	3 TU
	1147	2.45	1130	2.84	1104	3.05	1051	3.38	
	1814	0.09	1740	0.40	1714	0.66	1658	0.91	
			2345	3.39	2321	3.70	2304	3.99	
4 WE	0010	3.09	0629	0.30	0603	0.51	0541	0.75	4 WE
	0709	-0.03	1218	2.91	1153	3.13	1133	3.46	
	1236	2.52	1827	0.34	1758	0.58	1742	0.82	
	1858	0.05			2359	3.78	2341	4.09	
5 TH	0050	3.15	0026	3.45	0643	0.44	0622	0.66	5 TH
	0751	-0.07	0712	0.24	1230	3.22	1208	3.55	
	1315	2.60	1255	2.99	1835	0.51	1820	0.74	
	1934	0.00	1906	0.28					
6 FR	0124	3.20	0103	3.50	0034	3.84	0015	4.15	6 FR
	0826	-0.06	0748	0.23	0719	0.42	0657	0.63	
	1348	2.67	1327	3.06	1303	3.30	1240	3.63	
	○ 2005	-0.04	1940	0.25	1907	0.45	1853	0.68	○
7 SA	0154	3.22	0136	3.53	0107	3.87	0048	4.18	7 SA
	0857	-0.03	0820	0.23	0750	0.42	0729	0.62	
	1416	2.73	1356	3.10	1334	3.35	1310	3.68	
	2035	-0.07	2010	0.22	1936	0.40	1922	0.66	
8 SU	0224	3.24	0207	3.55	0137	3.88	0118	4.18	8 SU
	0923	-0.01	0848	0.23	0818	0.42	0757	0.62	
	1444	2.79	1424	3.14	1401	3.38	1338	3.71	
	2107	-0.08	2040	0.21	2007	0.37	1952	0.65	

01 | JANUARY | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 MO	0254	3.26	0238	3.56	0205	3.88	0147	4.17	9 MO
	0951	-0.02	0916	0.20	0846	0.38	0826	0.59	
	1515	2.85	1453	3.17	1427	3.41	1407	3.73	
	2142	-0.08	2113	0.19	2040	0.36	2024	0.65	
10 TU	0328	3.26	0309	3.56	0235	3.86	0217	4.15	10 TU
	1022	-0.05	0946	0.17	0917	0.34	0857	0.57	
	1550	2.87	1525	3.18	1457	3.43	1438	3.73	
	2218	-0.05	2149	0.19	2115	0.39	2058	0.67	
11 WE	0403	3.20	0343	3.53	0308	3.82	0249	4.11	11 WE
	1055	-0.08	1019	0.15	0949	0.32	0929	0.56	
	1627	2.84	1600	3.18	1531	3.43	1513	3.72	
	2255	0.00	2225	0.22	2151	0.45	2133	0.72	
12 TH	0440	3.10	0417	3.46	0343	3.74	0323	4.03	12 TH
	1127	-0.11	1051	0.15	1021	0.32	1001	0.58	
	1705	2.81	1636	3.17	1608	3.41	1550	3.69	
	2332	0.05	2303	0.26	2228	0.54	2209	0.78	
13 FR	0517	2.98	0452	3.36	0420	3.63	0400	3.93	13 FR
	1201	-0.15	1125	0.15	1055	0.32	1035	0.61	
	1743	2.80	1715	3.17	1648	3.41	1631	3.68	
			2342	0.30	2308	0.62	2248	0.87	
14 SA	0011	0.09	0531	3.24	0501	3.50	0441	3.79	14 SA
	0557	2.85	1201	0.16	1133	0.34	1113	0.68	
	1238	-0.18	1759	3.18	1734	3.41	1718	3.66	
	1827	2.81			2355	0.72	2335	0.99	
15 SU	0057	0.15	0028	0.36	0547	3.33	0529	3.60	15 SU
	0643	2.71	0617	3.09	1220	0.41	1200	0.78	
	1325	-0.16	1247	0.21	1834	3.39	1818	3.64	
	1920	2.81	1856	3.17					
16 MO	0158	0.24	0126	0.44	0057	0.85	0037	1.12	16 MO
	0740	2.53	0716	2.90	0648	3.11	0635	3.38	
	1427	-0.09	1348	0.30	1322	0.54	1303	0.91	
	2040	2.81	2016	3.18	2004	3.41	1941	3.66	

01 | JANUARY | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TU	0332	0.28	0249	0.50	0232	0.88	0208	1.18	17 TU
	0902	2.36	0841	2.75	0825	2.95	0804	3.25	
	1549	-0.04	1512	0.36	1447	0.60	1427	0.97	
	2210	2.92	2138	3.27	2118	3.53	2055	3.77	
18 WE	0456	0.16	0414	0.44	0349	0.78	0329	1.07	18 WE
	1032	2.36	1006	2.75	0942	2.95	0921	3.26	
	1705	-0.10	1630	0.29	1601	0.56	1542	0.90	
	2318	3.09	2247	3.41	2223	3.70	2203	3.95	
19 TH	0607	0.02	0527	0.33	0501	0.63	0438	0.89	19 TH
	1144	2.48	1119	2.89	1054	3.07	1032	3.41	
	1810	-0.18	1736	0.19	1706	0.45	1647	0.76	
			2345	3.57	2319	3.88	2300	4.17	
20 FR	0015	3.25	0632	0.21	0607	0.46	0541	0.69	20 FR
	0712	-0.09	1217	3.06	1152	3.26	1128	3.63	
	1242	2.66	1836	0.10	1807	0.31	1747	0.59	
	1909	-0.24					2347	4.37	
21 SA	0103	3.39	0035	3.70	0007	4.05	0635	0.50	21 SA
	0808	-0.15	0728	0.12	0700	0.31	1214	3.84	
	1330	2.83	1303	3.22	1239	3.46	1841	0.43	
	2003	-0.26	1931	0.03	1901	0.19			
22 SU	0145	3.49	0119	3.80	0050	4.17	0031	4.52	22 SU
	0857	-0.18	0818	0.05	0748	0.18	0723	0.35	
	1413	2.97	1346	3.34	1321	3.61	1258	4.00	
	2054	-0.25	2022	0.00	1951	0.11	1931	0.31	
23 MO	0227	3.54	0203	3.86	0133	4.23	0115	4.61	23 MO
	0944	-0.20	0903	0.01	0833	0.11	0808	0.24	
	1457	3.08	1430	3.42	1404	3.70	1343	4.10	
	2143	-0.21	2111	-0.01	2038	0.10	2018	0.27	
24 TU	0311	3.54	0249	3.87	0217	4.21	0159	4.62	24 TU
	1028	-0.20	0947	-0.01	0917	0.07	0852	0.18	
	1542	3.14	1515	3.46	1449	3.73	1428	4.13	
	2231	-0.14	2158	0.02	2124	0.15	2103	0.29	

01 | JANUARY | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 WE	0356	3.48	0335	3.83	0302	4.12	0243	4.54	25 WE
	1111	-0.21	1029	-0.01	0959	0.06	0934	0.17	
	1628	3.15	1603	3.47	1536	3.73	1515	4.11	
	2318	-0.07	2244	0.07	2210	0.23	2147	0.36	
26 TH	0441	3.37	0423	3.73	0350	3.99	0328	4.39	26 TH
	1152	-0.20	1110	0.00	1040	0.09	1015	0.22	
	1714	3.13	1653	3.45	1626	3.70	1604	4.05	
			2330	0.13	2256	0.35	2232	0.49	
27 FR	0004	0.02	0511	3.57	0440	3.80	0417	4.17	27 FR
	0527	3.19	1151	0.06	1121	0.18	1056	0.35	
	1233	-0.17	1746	3.39	1721	3.64	1657	3.95	
	1804	3.04			2346	0.52	2320	0.69	
28 SA	0053	0.13	0018	0.23	0537	3.54	0512	3.85	28 SA
	0618	2.93	0602	3.32	1206	0.35	1143	0.57	
	1316	-0.08	1236	0.18	1823	3.52	1758	3.79	
	1906	2.91	1845	3.27					
29 SU	0151	0.25	0113	0.38	0046	0.72	0019	0.94	29 SU
	0721	2.60	0701	2.99	0639	3.20	0615	3.47	
	1408	0.07	1329	0.37	1301	0.59	1239	0.87	
	2019	2.75	1952	3.12	1930	3.36	1905	3.60	
30 MO	0259	0.35	0219	0.53	0156	0.89	0131	1.17	30 MO
	0837	2.28	0811	2.64	0748	2.85	0729	3.11	
	1513	0.22	1437	0.56	1408	0.84	1349	1.15	
	2131	2.65	2104	2.99	2042	3.23	2022	3.47	
31 TU	0423	0.36	0340	0.62	0332	0.95	0310	1.25	31 TU
	0955	2.07	0941	2.43	0913	2.63	0908	2.91	
	1626	0.28	1557	0.65	1530	0.96	1519	1.27	
	2245	2.66	2222	2.97	2201	3.24	2149	3.49	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0600	0.15	0516	0.51	0500	0.76	0438	1.07	1 WE
	1131	2.09	1119	2.49	1104	2.69	1044	3.02	
	1746	0.21	1718	0.56	1657	0.86	1641	1.16	
	2350	2.78	2330	3.09	2312	3.37	2255	3.67	
2 TH	0656	-0.08	0618	0.31	0553	0.54	0532	0.85	2 TH
	1233	2.27	1216	2.68	1159	2.89	1134	3.21	
	1845	0.06	1816	0.41	1749	0.69	1733	0.97	
					2357	3.54	2336	3.86	
3 FR	0038	2.94	0020	3.24	0634	0.39	0613	0.68	3 FR
	0738	-0.21	0702	0.17	1233	3.08	1206	3.39	
	1312	2.45	1254	2.86	1828	0.54	1813	0.80	
	1927	-0.04	1859	0.28					
4 SA	0114	3.05	0057	3.37	0030	3.68	0008	4.01	4 SA
	0813	-0.23	0737	0.11	0707	0.32	0646	0.58	
	1343	2.60	1323	3.00	1300	3.23	1232	3.55	
	2000	-0.09	1933	0.20	1900	0.43	1845	0.68	
5 SU	0144	3.13	0128	3.46	0057	3.77	0036	4.12	5 SU
	0842	-0.18	0806	0.10	0735	0.29	0715	0.52	
	1408	2.72	1348	3.12	1324	3.36	1258	3.68	
	2029	-0.10	2002	0.16	1927	0.34	1913	0.60	
6 MO	0211	3.20	0155	3.54	0123	3.84	0103	4.20	6 MO
	0908	-0.14	0832	0.09	0800	0.25	0741	0.46	
	1432	2.85	1411	3.22	1346	3.47	1323	3.80	
	2057	-0.12	2029	0.12	1955	0.27	1940	0.52	
7 TU	0238	3.27	0222	3.60	0148	3.89	0128	4.25	7 TU
	0934	-0.14	0858	0.06	0827	0.20	0807	0.40	
	1458	2.98	1435	3.30	1408	3.56	1347	3.88	
	2129	-0.14	2059	0.08	2026	0.22	2009	0.47	
8 WE	0308	3.30	0249	3.63	0215	3.90	0154	4.28	8 WE
	1002	-0.16	0925	0.02	0855	0.15	0835	0.34	
	1529	3.04	1503	3.35	1434	3.61	1414	3.93	
	2204	-0.12	2132	0.07	2100	0.21	2040	0.45	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0340	3.26	0318	3.61	0245	3.86	0222	4.25	9 TH
	1031	-0.18	0955	0.00	0925	0.13	0904	0.32	
	1602	3.04	1533	3.36	1504	3.63	1444	3.94	
	2238	-0.09	2206	0.08	2133	0.25	2112	0.48	
10 FR	0413	3.15	0349	3.53	0316	3.79	0252	4.17	10 FR
	1101	-0.21	1024	-0.01	0954	0.12	0932	0.32	
	1634	3.00	1605	3.36	1537	3.64	1516	3.94	
	2312	-0.06	2239	0.10	2206	0.29	2143	0.52	
11 SA	0446	3.02	0421	3.44	0350	3.69	0325	4.07	11 SA
	1130	-0.27	1054	-0.04	1023	0.09	1001	0.33	
	1707	2.99	1640	3.38	1612	3.66	1552	3.94	
	2346	-0.06	2314	0.11	2240	0.34	2216	0.58	
12 SU	0520	2.90	0456	3.33	0427	3.58	0402	3.93	12 SU
	1203	-0.34	1126	-0.07	1056	0.09	1033	0.37	
	1745	3.00	1719	3.39	1653	3.65	1633	3.92	
			2353	0.14	2320	0.43	2256	0.71	
13 MO	0025	-0.03	0539	3.17	0509	3.40	0446	3.71	13 MO
	0603	2.75	1206	-0.01	1136	0.18	1114	0.51	
	1244	-0.34	1809	3.33	1742	3.55	1723	3.83	
	1833	2.94					2350	0.93	
14 TU	0118	0.08	0045	0.27	0013	0.62	0543	3.40	14 TU
	0657	2.51	0632	2.91	0602	3.11	1211	0.78	
	1339	-0.19	1301	0.18	1231	0.42	1836	3.66	
	1937	2.79	1917	3.17	1853	3.37			
15 WE	0245	0.23	0202	0.46	0144	0.84	0115	1.18	15 WE
	0812	2.22	0753	2.62	0731	2.78	0716	3.10	
	1503	0.00	1425	0.41	1401	0.68	1336	1.04	
	2138	2.73	2101	3.10	2045	3.33	2019	3.62	
16 TH	0425	0.20	0343	0.51	0323	0.83	0303	1.17	16 TH
	1011	2.16	0944	2.56	0923	2.73	0858	3.07	
	1637	0.02	1605	0.43	1537	0.70	1517	1.06	
	2303	2.91	2230	3.24	2207	3.50	2146	3.79	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0556	0.05	0516	0.38	0456	0.65	0431	0.95	17 FR
	1143	2.37	1116	2.78	1056	2.96	1029	3.31	
	1757	-0.08	1727	0.30	1700	0.55	1639	0.88	
			2338	3.47	2312	3.76	2252	4.09	
18 SA	0007	3.15	0629	0.17	0603	0.38	0539	0.65	18 SA
	0707	-0.15	1215	3.07	1154	3.27	1126	3.64	
	1244	2.66	1834	0.13	1806	0.34	1746	0.61	
	1906	-0.19					2340	4.37	
19 SU	0055	3.35	0029	3.67	0000	3.98	0628	0.39	19 SU
	0800	-0.26	0721	0.02	0652	0.17	1208	3.94	
	1328	2.90	1259	3.31	1235	3.54	1836	0.36	
	2000	-0.25	1928	0.00	1857	0.16			
20 MO	0135	3.48	0110	3.82	0040	4.15	0020	4.58	20 MO
	0845	-0.29	0806	-0.07	0735	0.03	0710	0.20	
	1405	3.10	1337	3.49	1311	3.75	1247	4.16	
	2048	-0.26	2014	-0.06	1942	0.05	1921	0.20	
21 TU	0212	3.56	0150	3.91	0118	4.24	0059	4.70	21 TU
	0927	-0.28	0846	-0.10	0815	-0.04	0751	0.09	
	1441	3.25	1414	3.61	1346	3.89	1326	4.31	
	2133	-0.23	2058	-0.07	2026	0.01	2004	0.14	
22 WE	0251	3.58	0230	3.94	0157	4.24	0138	4.72	22 WE
	1006	-0.26	0925	-0.10	0854	-0.05	0829	0.04	
	1519	3.34	1453	3.67	1424	3.96	1406	4.37	
	2216	-0.18	2140	-0.04	2107	0.05	2045	0.16	
23 TH	0332	3.52	0312	3.89	0238	4.15	0218	4.63	23 TH
	1044	-0.24	1002	-0.09	0931	-0.02	0907	0.06	
	1559	3.36	1535	3.68	1504	3.97	1446	4.36	
	2258	-0.11	2220	0.01	2147	0.12	2124	0.23	
24 FR	0414	3.40	0354	3.79	0320	4.01	0259	4.47	24 FR
	1120	-0.21	1037	-0.05	1006	0.03	0942	0.13	
	1638	3.33	1616	3.64	1545	3.93	1527	4.30	
	2338	-0.04	2259	0.08	2226	0.23	2201	0.36	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0456	3.22	0436	3.61	0403	3.82	0341	4.23	25 SA
	1152	-0.18	1111	0.01	1039	0.13	1016	0.27	
	1719	3.23	1659	3.56	1628	3.84	1609	4.17	
			2338	0.17	2305	0.38	2240	0.56	
26 SU	0016	0.04	0520	3.36	0449	3.55	0426	3.90	26 SU
	0539	2.96	1146	0.13	1112	0.31	1053	0.52	
	1222	-0.10	1746	3.39	1716	3.64	1657	3.94	
	1805	3.04			2351	0.61	2326	0.86	
27 MO	0058	0.17	0021	0.32	0542	3.18	0519	3.48	27 MO
	0629	2.60	0608	3.00	1152	0.61	1137	0.90	
	1255	0.07	1227	0.36	1821	3.35	1757	3.62	
	1907	2.76	1846	3.12					
28 TU	0200	0.34	0119	0.55	0059	0.89	0032	1.22	28 TU
	0739	2.19	0712	2.58	0652	2.75	0629	3.02	
	1351	0.33	1331	0.67	1302	0.99	1245	1.32	
	2035	2.50	2004	2.86	1945	3.07	1918	3.32	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0319	0.44	0239	0.74	0222	1.08	0208	1.45	1 WE
	0910	1.90	0843	2.26	0825	2.44	0811	2.72	
	1538	0.49	1506	0.87	1441	1.21	1428	1.55	
	2202	2.44	2139	2.76	2119	2.99	2107	3.26	
2 TH	0538	0.30	0445	0.69	0442	0.92	0422	1.27	2 TH
	1115	1.95	1100	2.36	1054	2.57	1034	2.90	
	1719	0.39	1653	0.77	1641	1.09	1625	1.40	
	2325	2.62	2308	2.93	2256	3.20	2242	3.52	
3 FR	0637	-0.05	0600	0.39	0538	0.60	0519	0.93	3 FR
	1221	2.28	1202	2.69	1147	2.92	1125	3.24	
	1831	0.13	1803	0.50	1738	0.80	1722	1.09	
					2344	3.48	2325	3.82	
4 SA	0019	2.88	0003	3.19	0616	0.37	0556	0.68	4 SA
	0716	-0.25	0642	0.16	1219	3.21	1154	3.53	
	1257	2.58	1238	2.98	1815	0.57	1759	0.83	
	1913	-0.05	1845	0.29			2353	4.05	
5 SU	0056	3.08	0041	3.40	0015	3.69	0625	0.52	5 SU
	0748	-0.30	0714	0.05	0645	0.25	1215	3.76	
	1326	2.79	1305	3.19	1242	3.43	1829	0.65	
	1947	-0.12	1918	0.19	1844	0.41			
6 MO	0126	3.20	0109	3.54	0039	3.83	0018	4.22	6 MO
	0817	-0.26	0742	0.03	0710	0.19	0651	0.41	
	1350	2.95	1328	3.35	1302	3.60	1238	3.96	
	2016	-0.11	1946	0.14	1911	0.30	1855	0.52	
7 TU	0152	3.29	0134	3.65	0101	3.94	0042	4.34	7 TU
	0843	-0.20	0808	0.02	0735	0.14	0715	0.32	
	1411	3.10	1349	3.48	1321	3.75	1301	4.11	
	○ 2044	-0.11	2012	0.10	1939	0.22	1921	0.42	○
8 WE	0216	3.37	0158	3.73	0124	4.00	0105	4.42	8 WE
	0909	-0.17	0833	0.00	0801	0.09	0741	0.24	
	1435	3.25	1410	3.58	1341	3.86	1322	4.22	
	2115	-0.11	2041	0.06	2009	0.16	1949	0.35	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0243	3.42	0223	3.76	0149	4.02	0128	4.45	9 TH
	0937	-0.18	0859	-0.03	0828	0.06	0808	0.19	
	1503	3.33	1435	3.64	1406	3.94	1346	4.28	
	2148	-0.10	2112	0.04	2041	0.14	2019	0.33	
10 FR	0314	3.38	0250	3.74	0218	3.98	0154	4.43	10 FR
	1005	-0.20	0928	-0.06	0857	0.04	0835	0.17	
	1534	3.33	1504	3.65	1435	3.97	1414	4.29	
	2222	-0.08	2145	0.05	2114	0.16	2050	0.35	
11 SA	0347	3.27	0320	3.67	0249	3.89	0224	4.34	11 SA
	1034	-0.23	0957	-0.08	0926	0.02	0903	0.18	
	1606	3.30	1535	3.65	1508	3.97	1446	4.29	
	2254	-0.06	2218	0.06	2146	0.19	2121	0.40	
12 SU	0419	3.13	0353	3.57	0323	3.80	0257	4.22	12 SU
	1104	-0.30	1027	-0.10	0955	0.01	0932	0.20	
	1639	3.27	1611	3.65	1544	3.97	1521	4.28	
	2327	-0.07	2252	0.06	2218	0.23	2153	0.46	
13 MO	0455	2.99	0430	3.45	0401	3.67	0335	4.06	13 MO
	1137	-0.35	1059	-0.11	1027	0.03	1004	0.28	
	1717	3.22	1652	3.62	1625	3.91	1603	4.21	
			2330	0.11	2257	0.34	2231	0.61	
14 TU	0005	-0.05	0514	3.25	0445	3.46	0422	3.80	14 TU
	0538	2.81	1140	-0.01	1108	0.19	1046	0.49	
	1218	-0.31	1742	3.49	1715	3.74	1655	4.04	
	1807	3.08			2349	0.59	2325	0.89	
15 WE	0057	0.07	0021	0.28	0541	3.12	0522	3.45	15 WE
	0635	2.53	0610	2.95	1205	0.53	1145	0.86	
	1313	-0.10	1236	0.27	1826	3.45	1809	3.77	
	1916	2.85	1853	3.25					
16 TH	0227	0.25	0140	0.53	0124	0.87	0054	1.20	16 TH
	0803	2.22	0739	2.63	0720	2.78	0701	3.13	
	1442	0.16	1406	0.58	1343	0.87	1317	1.20	
	2121	2.75	2043	3.12	2026	3.34	2000	3.67	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0407	0.24	0327	0.61	0310	0.86	0251	1.19	17 FR
	1009	2.25	0943	2.64	0925	2.83	0858	3.17	
	1622	0.19	1555	0.61	1529	0.86	1510	1.19	
	2250	2.96	2220	3.28	2157	3.54	2135	3.87	
18 SA	0551	0.04	0512	0.41	0452	0.59	0428	0.90	18 SA
	1141	2.58	1111	2.98	1053	3.19	1027	3.55	
	1758	0.05	1727	0.41	1702	0.63	1640	0.91	
	2354	3.22	2327	3.54	2301	3.82	2242	4.20	
19 SU	0656	-0.18	0618	0.16	0550	0.29	0528	0.56	19 SU
	1236	2.93	1206	3.33	1144	3.55	1118	3.94	
	1903	-0.10	1830	0.19	1800	0.37	1739	0.59	
					2347	4.04	2327	4.48	
20 MO	0041	3.41	0015	3.75	0635	0.11	0611	0.31	20 MO
	0744	-0.26	0705	0.01	1221	3.82	1155	4.26	
	1316	3.18	1245	3.58	1846	0.19	1825	0.34	
	1952	-0.17	1918	0.06					
21 TU	0118	3.54	0054	3.90	0023	4.20	0004	4.69	21 TU
	0825	-0.26	0745	-0.05	0714	0.01	0650	0.14	
	1348	3.38	1318	3.76	1251	4.05	1229	4.50	
	2036	-0.17	2000	0.00	1927	0.09	1905	0.18	
22 WE	0152	3.63	0129	4.00	0057	4.30	0039	4.80	22 WE
	0902	-0.23	0822	-0.06	0751	-0.03	0726	0.05	
	1419	3.53	1350	3.90	1322	4.21	1303	4.66	
	2116	-0.15	2039	0.00	2007	0.05	1944	0.12	
23 TH	0229	3.66	0206	4.03	0134	4.32	0116	4.82	23 TH
	0938	-0.20	0856	-0.06	0826	-0.03	0801	0.03	
	1454	3.62	1426	3.96	1357	4.29	1340	4.72	
	2156	-0.11	2118	0.03	2045	0.07	2022	0.14	
24 FR	0309	3.61	0246	3.98	0214	4.24	0154	4.73	24 FR
	1013	-0.18	0930	-0.04	0859	0.01	0835	0.07	
	1531	3.62	1505	3.94	1434	4.28	1417	4.69	
	2235	-0.06	2154	0.08	2122	0.13	2058	0.22	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0349	3.47	0327	3.86	0254	4.09	0233	4.56	25 SA
	1045	-0.15	1003	0.00	0931	0.08	0908	0.16	
	1609	3.55	1544	3.87	1513	4.21	1455	4.59	
	2311	-0.01	2229	0.14	2158	0.22	2132	0.34	
26 SU	0429	3.28	0406	3.67	0335	3.89	0312	4.33	26 SU
	1115	-0.10	1035	0.07	1002	0.19	0940	0.32	
	1648	3.43	1624	3.75	1553	4.09	1534	4.43	
	2345	0.05	2304	0.22	2233	0.36	2207	0.53	
27 MO	0509	3.03	0446	3.43	0417	3.64	0354	4.02	27 MO
	1142	-0.03	1107	0.19	1033	0.37	1013	0.58	
	1729	3.23	1706	3.58	1635	3.87	1616	4.19	
			2341	0.35	2311	0.57	2245	0.82	
28 TU	0020	0.15	0530	3.12	0503	3.29	0441	3.63	28 TU
	0554	2.69	1143	0.41	1108	0.67	1051	0.95	
	1213	0.13	1756	3.31	1726	3.55	1707	3.85	
	1819	2.93					2339	1.19	
29 WE	0109	0.32	0029	0.57	0006	0.87	0542	3.20	29 WE
	0651	2.30	0625	2.73	0603	2.89	1145	1.41	
	1256	0.40	1233	0.74	1156	1.08	1821	3.49	
	1933	2.59	1907	2.98	1844	3.19			
30 TH	0230	0.48	0144	0.82	0134	1.13	0110	1.50	30 TH
	0823	1.98	0749	2.39	0737	2.57	0716	2.88	
	1425	0.71	1410	1.06	1356	1.43	1337	1.74	
	2115	2.44	2042	2.80	2024	3.02	1959	3.32	
31 FR	0359	0.46	0323	0.89	0311	1.14	0308	1.49	31 FR
	1025	2.05	1007	2.43	1003	2.67	0940	3.00	
	1633	0.64	1602	1.03	1543	1.36	1532	1.65	
	2242	2.60	2223	2.93	2205	3.19	2149	3.51	

04 | APRIL | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SA	0547	0.21	0514	0.65	0459	0.83	0440	1.16	1 SA
	1146	2.45	1123	2.83	1108	3.09	1046	3.43	
	1754	0.36	1728	0.75	1706	1.03	1648	1.30	
	2345	2.90	2327	3.24	2306	3.51	2247	3.86	
2 SU	0634	-0.05	0603	0.37	0538	0.55	0519	0.85	2 SU
	1226	2.83	1203	3.21	1142	3.46	1118	3.82	
	1843	0.12	1815	0.48	1745	0.73	1728	0.97	
					2342	3.77	2321	4.15	
3 MO	0026	3.15	0008	3.50	0607	0.37	0548	0.63	3 MO
	0709	-0.15	0638	0.21	1207	3.75	1143	4.12	
	1256	3.10	1232	3.49	1816	0.52	1759	0.74	
	1919	0.03	1849	0.33			2348	4.35	
4 TU	0058	3.30	0038	3.68	0007	3.95	0615	0.48	4 TU
	0741	-0.14	0707	0.15	0634	0.27	1207	4.34	
	1320	3.27	1255	3.68	1228	3.95	1827	0.57	
	1951	0.02	1918	0.27	1845	0.39			
5 WE	0124	3.40	0103	3.79	0030	4.07	0013	4.48	5 WE
	0810	-0.08	0734	0.13	0701	0.21	0641	0.36	
	1342	3.41	1317	3.81	1247	4.12	1229	4.50	
	2022	0.04	1947	0.23	1915	0.30	1855	0.46	
6 TH	0148	3.48	0127	3.86	0054	4.14	0036	4.57	6 TH
	0838	-0.05	0801	0.10	0729	0.16	0708	0.26	
	1405	3.55	1338	3.91	1309	4.25	1251	4.62	
	○ 2055	0.05	2018	0.20	1946	0.24	1924	0.38	○
7 FR	0216	3.53	0152	3.91	0121	4.16	0059	4.61	7 FR
	0908	-0.06	0829	0.06	0758	0.11	0736	0.19	
	1434	3.64	1403	3.98	1336	4.33	1316	4.70	
	2130	0.05	2051	0.18	2020	0.22	1956	0.34	
8 SA	0248	3.51	0221	3.89	0152	4.13	0128	4.61	8 SA
	0939	-0.09	0900	0.03	0829	0.08	0806	0.17	
	1507	3.65	1435	4.00	1409	4.36	1347	4.73	
	2206	0.07	2126	0.18	2055	0.22	2029	0.35	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SU	0324	3.42	0255	3.83	0226	4.05	0201	4.53	9 SU
	1010	-0.12	0933	0.02	0901	0.08	0837	0.19	
	1543	3.62	1510	3.98	1445	4.35	1422	4.71	
	2241	0.08	2201	0.19	2130	0.26	2103	0.39	
10 MO	0401	3.28	0332	3.72	0304	3.94	0239	4.41	10 MO
	1043	-0.15	1006	0.02	0934	0.10	0910	0.25	
	1620	3.55	1550	3.94	1525	4.30	1502	4.66	
	2316	0.08	2238	0.21	2206	0.32	2139	0.48	
11 TU	0441	3.12	0414	3.58	0347	3.79	0322	4.22	11 TU
	1120	-0.15	1043	0.07	1011	0.19	0947	0.39	
	1704	3.45	1636	3.86	1611	4.19	1548	4.53	
	2358	0.12	2320	0.29	2249	0.45	2221	0.65	
12 WE	0530	2.91	0503	3.37	0436	3.57	0413	3.96	12 WE
	1205	-0.05	1129	0.24	1056	0.42	1034	0.67	
	1759	3.27	1732	3.68	1705	3.97	1644	4.31	
					2348	0.69	2320	0.93	
13 TH	0058	0.24	0016	0.47	0541	3.27	0520	3.64	13 TH
	0633	2.65	0607	3.09	1159	0.78	1139	1.06	
	1306	0.19	1232	0.54	1823	3.68	1802	4.03	
	1916	3.04	1850	3.44					
14 FR	0224	0.34	0137	0.66	0122	0.87	0052	1.18	14 FR
	0816	2.47	0746	2.89	0729	3.08	0704	3.42	
	1438	0.41	1405	0.79	1342	1.05	1318	1.33	
	2107	2.99	2034	3.35	2012	3.60	1947	3.94	
15 SA	0357	0.28	0317	0.68	0259	0.82	0235	1.14	15 SA
	1007	2.64	0939	3.03	0921	3.26	0853	3.59	
	1620	0.39	1551	0.76	1526	0.97	1502	1.25	
	2231	3.15	2204	3.50	2138	3.75	2114	4.10	
16 SU	0531	0.10	0452	0.49	0429	0.58	0403	0.89	16 SU
	1125	2.99	1055	3.39	1034	3.63	1009	3.98	
	1751	0.22	1716	0.55	1649	0.72	1625	0.97	
	2334	3.34	2308	3.70	2241	3.97	2219	4.35	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 MO	0632	-0.04	0554	0.30	0525	0.37	0502	0.62	17 MO
	1217	3.30	1145	3.69	1122	3.94	1057	4.34	
	1850	0.09	1814	0.36	1743	0.50	1721	0.68	
			2355	3.85	2325	4.13	2305	4.56	
18 TU	0022	3.48	0640	0.20	0608	0.25	0545	0.43	18 TU
	0719	-0.07	1223	3.90	1156	4.18	1132	4.63	
	1256	3.50	1900	0.26	1827	0.36	1804	0.47	
	1937	0.06					2341	4.72	
19 WE	0058	3.58	0032	3.97	0000	4.26	0621	0.31	19 WE
	0758	-0.03	0718	0.17	0646	0.19	1204	4.85	
	1326	3.66	1253	4.06	1225	4.38	1843	0.34	
	2018	0.07	1940	0.23	1907	0.27			
20 TH	0131	3.67	0106	4.06	0035	4.36	0016	4.83	20 TH
	0833	0.00	0753	0.14	0721	0.15	0656	0.22	
	1356	3.79	1324	4.18	1256	4.53	1237	4.99	
	2057	0.08	2018	0.22	1945	0.22	1920	0.28	
21 FR	0207	3.72	0142	4.10	0112	4.39	0052	4.85	21 FR
	0907	0.00	0826	0.12	0755	0.14	0729	0.20	
	1429	3.85	1359	4.22	1331	4.59	1312	5.03	
	2134	0.10	2054	0.25	2022	0.24	1957	0.30	
22 SA	0247	3.66	0222	4.05	0152	4.32	0130	4.78	22 SA
	0941	0.01	0900	0.14	0828	0.18	0803	0.25	
	1507	3.81	1438	4.18	1409	4.55	1349	4.96	
	2211	0.14	2129	0.30	2058	0.30	2032	0.38	
23 SU	0327	3.52	0302	3.92	0232	4.17	0209	4.62	23 SU
	1014	0.05	0933	0.19	0901	0.26	0836	0.37	
	1545	3.72	1517	4.07	1447	4.45	1426	4.83	
	2246	0.19	2203	0.36	2133	0.39	2105	0.50	
24 MO	0406	3.34	0341	3.75	0311	3.98	0248	4.41	24 MO
	1045	0.11	1006	0.28	0932	0.38	0909	0.53	
	1623	3.59	1555	3.95	1526	4.31	1505	4.66	
	2320	0.23	2237	0.42	2208	0.50	2139	0.66	

04 | APRIL | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TU	0444	3.13	0419	3.55	0351	3.77	0328	4.17	25 TU
	1114	0.19	1039	0.40	1004	0.56	0942	0.76	
	1702	3.43	1635	3.80	1606	4.13	1545	4.45	
	2355	0.29	2313	0.51	2245	0.66	2216	0.87	
26 WE	0526	2.89	0500	3.32	0433	3.52	0412	3.89	26 WE
	1147	0.33	1114	0.59	1040	0.81	1020	1.07	
	1746	3.21	1720	3.60	1651	3.88	1631	4.19	
			2357	0.67	2332	0.88	2303	1.15	
27 TH	0038	0.40	0549	3.05	0525	3.23	0505	3.58	27 TH
	0615	2.62	1200	0.86	1124	1.16	1108	1.44	
	1228	0.55	1818	3.33	1749	3.57	1730	3.89	
	1841	2.93							
28 FR	0143	0.54	0056	0.88	0045	1.12	0011	1.44	28 FR
	0725	2.38	0700	2.81	0647	2.99	0625	3.33	
	1325	0.83	1306	1.16	1233	1.51	1224	1.79	
	2009	2.71	1943	3.11	1922	3.35	1858	3.67	
29 SA	0309	0.57	0224	1.01	0211	1.18	0146	1.55	29 SA
	0920	2.39	0843	2.78	0829	3.02	0804	3.35	
	1541	0.91	1501	1.25	1442	1.54	1421	1.81	
	2146	2.75	2114	3.13	2048	3.37	2024	3.69	
30 SU	0423	0.45	0349	0.93	0322	1.06	0305	1.42	30 SU
	1044	2.72	1015	3.09	0955	3.35	0930	3.67	
	1657	0.69	1623	1.06	1554	1.31	1536	1.58	
	2254	2.98	2227	3.35	2159	3.60	2139	3.91	

05 | MAY | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 MO	0526	0.28	0456	0.72	0425	0.85	0409	1.18	1 MO
	1136	3.10	1108	3.48	1044	3.74	1022	4.07	
	1754	0.46	1723	0.81	1652	1.02	1633	1.27	
	2343	3.22	2318	3.60	2248	3.85	2230	4.17	
2 TU	0616	0.16	0545	0.54	0512	0.66	0453	0.94	2 TU
	1213	3.39	1144	3.79	1117	4.06	1057	4.41	
	1840	0.33	1807	0.63	1734	0.79	1715	1.00	
			2354	3.79	2323	4.04	2307	4.38	
3 WE	0020	3.38	0622	0.44	0549	0.53	0528	0.74	3 WE
	0656	0.14	1214	4.00	1144	4.29	1126	4.66	
	1242	3.58	1843	0.53	1811	0.63	1749	0.80	
	1919	0.28			2353	4.17	2336	4.53	
4 TH	0049	3.48	0025	3.91	0622	0.44	0600	0.59	4 TH
	0731	0.16	0654	0.38	1210	4.47	1151	4.84	
	1308	3.72	1239	4.14	1845	0.53	1822	0.65	
	1956	0.29	1917	0.48					
5 FR	0117	3.56	0053	3.98	0023	4.25	0002	4.64	5 FR
	0805	0.17	0726	0.33	0654	0.36	0631	0.46	
	1335	3.84	1305	4.24	1237	4.61	1217	4.99	
	○ 2034	0.29	1953	0.45	1921	0.45	1857	0.54 ○	
6 SA	0149	3.63	0122	4.03	0054	4.30	0030	4.73	6 SA
	0839	0.16	0800	0.28	0727	0.29	0703	0.35	
	1408	3.92	1335	4.31	1310	4.71	1247	5.10	
	2113	0.29	2031	0.43	1959	0.41	1933	0.48	
7 SU	0225	3.64	0156	4.04	0129	4.30	0104	4.77	7 SU
	0915	0.13	0836	0.25	0803	0.25	0738	0.31	
	1445	3.95	1411	4.33	1347	4.74	1323	5.13	
	2153	0.30	2110	0.43	2039	0.40	2011	0.46	
8 MO	0305	3.58	0235	3.99	0209	4.24	0144	4.73	8 MO
	0952	0.11	0914	0.24	0841	0.25	0815	0.34	
	1526	3.92	1452	4.31	1428	4.72	1403	5.11	
	2233	0.32	2150	0.44	2119	0.42	2050	0.49	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TU	0349	3.47	0319	3.90	0252	4.15	0227	4.63	9 TU
	1031	0.12	0954	0.28	0921	0.31	0855	0.43	
	1611	3.85	1538	4.25	1513	4.65	1448	5.02	
	2315	0.33	2232	0.47	2202	0.48	2132	0.57	
10 WE	0436	3.33	0407	3.78	0340	4.02	0315	4.47	10 WE
	1114	0.18	1037	0.38	1004	0.44	0939	0.61	
	1701	3.74	1629	4.15	1603	4.52	1538	4.87	
			2320	0.54	2251	0.58	2220	0.72	
11 TH	0004	0.37	0502	3.62	0435	3.85	0410	4.25	11 TH
	0531	3.17	1130	0.56	1056	0.67	1031	0.88	
	1204	0.32	1729	3.98	1701	4.31	1638	4.65	
	1759	3.58			2354	0.72	2322	0.93	
12 FR	0106	0.40	0019	0.65	0547	3.67	0521	4.02	12 FR
	0641	3.01	0611	3.45	1204	0.96	1141	1.19	
	1311	0.51	1237	0.78	1821	4.08	1756	4.41	
	1917	3.41	1847	3.80					
13 SA	0220	0.40	0133	0.74	0112	0.80	0041	1.08	13 SA
	0815	2.99	0745	3.38	0724	3.62	0658	3.93	
	1438	0.62	1403	0.93	1337	1.11	1312	1.35	
	2046	3.35	2018	3.72	1951	3.98	1926	4.31	
14 SU	0338	0.33	0255	0.75	0231	0.78	0204	1.09	14 SU
	0946	3.18	0917	3.55	0854	3.81	0828	4.11	
	1608	0.57	1533	0.89	1503	1.05	1438	1.29	
	2203	3.40	2137	3.77	2108	4.02	2043	4.34	
15 MO	0455	0.26	0416	0.67	0348	0.69	0321	0.99	15 MO
	1058	3.44	1026	3.82	1001	4.08	0937	4.40	
	1728	0.46	1651	0.75	1621	0.89	1555	1.10	
	2307	3.47	2241	3.86	2210	4.10	2148	4.44	
16 TU	0558	0.22	0520	0.57	0449	0.60	0423	0.85	16 TU
	1151	3.65	1118	4.03	1050	4.31	1027	4.67	
	1828	0.38	1752	0.62	1719	0.72	1654	0.90	
	2357	3.53	2330	3.93	2258	4.19	2238	4.55	

05 | MAY | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 WE	0647 1231 1917	0.25 3.77 0.36	0609 1157 1839	0.52 4.17 0.55	0536 1126 1805 2337	0.54 4.48 0.61 4.27	0511 1105 1741 2317	0.73 4.89 0.73 4.65	17 WE
18 TH	0036 0728 1303 1959	3.59 0.29 3.87 0.37	0009 0649 1229 1920	4.01 0.48 4.29 0.53	0616 1158 1846	0.49 4.63 0.53	0550 1139 1821 2354	0.63 5.07 0.62 4.75	18 TH
19 FR	0111 0804 1334 2037	3.67 0.30 3.96 0.37	0045 0725 1301 1958	4.08 0.44 4.39 0.53	0014 0652 1232 1925	4.36 0.45 4.75 0.50	0626 1212 1859	0.55 5.17 0.57	19 FR
20 SA	0148 0838 1408 2114	3.71 0.27 3.99 0.39	0122 0759 1337 2034	4.13 0.41 4.41 0.55	0053 0727 1310 2002	4.39 0.42 4.78 0.51	0032 0701 1248 1935	4.79 0.51 5.19 0.58	20 SA
21 SU	0227 0913 1446 2150	3.69 0.27 3.96 0.42	0201 0834 1415 2108	4.09 0.42 4.36 0.60	0133 0801 1348 2038	4.35 0.45 4.72 0.57	0110 0736 1325 2010	4.76 0.55 5.11 0.65	21 SU
22 MO	0305 0947 1523 2225	3.59 0.32 3.88 0.46	0240 0908 1453 2142	3.99 0.48 4.27 0.65	0213 0835 1426 2112	4.24 0.53 4.63 0.64	0149 0810 1403 2044	4.65 0.65 4.99 0.74	22 MO
23 TU	0343 1020 1600 2259	3.46 0.39 3.80 0.48	0318 0942 1531 2216	3.86 0.57 4.17 0.69	0250 0909 1503 2147	4.11 0.63 4.52 0.70	0226 0844 1440 2118	4.51 0.79 4.86 0.84	23 TU
24 WE	0421 1053 1638 2335	3.34 0.47 3.71 0.50	0356 1017 1610 2252	3.74 0.67 4.08 0.73	0328 0942 1541 2224	3.98 0.77 4.41 0.78	0305 0919 1519 2154	4.36 0.96 4.73 0.95	24 WE

05 | MAY | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TH	0501 1128 1719	3.22 0.56 3.58	0435 1054 1652 2332	3.63 0.80 3.96 0.80	0407 1019 1622 2305	3.85 0.95 4.26 0.90	0346 0957 1602 2236	4.21 1.16 4.57 1.10	25 TH
26 FR	0015 0546 1207 1806	0.54 3.09 0.71 3.41	0520 1137 1740	3.50 0.97 3.79	0452 1102 1708 2355	3.70 1.18 4.06 1.04	0432 1042 1650 2325	4.05 1.40 4.37 1.29	26 FR
27 SA	0103 0638 1256 1900	0.62 2.98 0.88 3.23	0019 0615 1229 1841	0.92 3.38 1.17 3.61	0551 1153 1810	3.57 1.42 3.85	0531 1137 1752	3.90 1.65 4.16	27 SA
28 SU	0206 0750 1403 2016	0.69 2.94 1.04 3.11	0118 0730 1340 1958	1.05 3.33 1.33 3.50	0103 0713 1315 1934	1.16 3.55 1.59 3.74	0028 0653 1254 1914	1.46 3.87 1.81 4.03	28 SU
29 MO	0321 0925 1552 2141	0.68 3.09 1.00 3.16	0234 0852 1513 2112	1.11 3.47 1.30 3.55	0217 0829 1449 2044	1.17 3.72 1.49 3.78	0147 0809 1426 2024	1.51 4.02 1.73 4.07	29 MO
30 TU	0424 1028 1658 2241	0.59 3.37 0.82 3.30	0345 0957 1620 2213	1.03 3.74 1.14 3.69	0317 0930 1550 2143	1.08 4.00 1.29 3.91	0255 0911 1530 2125	1.41 4.30 1.52 4.19	30 TU
31 WE	0519 1116 1753 2329	0.50 3.64 0.66 3.44	0442 1047 1716 2303	0.89 4.02 0.96 3.85	0410 1018 1643 2232	0.96 4.29 1.08 4.06	0350 1002 1622 2216	1.23 4.60 1.27 4.36	31 WE

06 | JUNE | 2023

	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TH	0608	0.44	0531	0.77	0458	0.84	0436	1.04	1 TH
	1157	3.84	1128	4.24	1058	4.53	1041	4.87	
	1842	0.57	1804	0.84	1731	0.91	1708	1.06	
			2344	3.97	2314	4.19	2256	4.52	
2 FR	0010	3.56	0614	0.67	0540	0.72	0517	0.85	2 FR
	0652	0.41	1203	4.40	1134	4.73	1115	5.09	
	1233	3.98	1848	0.77	1815	0.79	1750	0.88	
	1928	0.54			2353	4.30	2331	4.68	
3 SA	0047	3.65	0022	4.06	0621	0.61	0556	0.69	3 SA
	0734	0.40	0655	0.60	1210	4.88	1148	5.27	
	1308	4.09	1237	4.50	1859	0.69	1832	0.74	
	2013	0.53	1932	0.73					
4 SU	0124	3.73	0059	4.13	0031	4.40	0007	4.82	4 SU
	0815	0.37	0736	0.54	0702	0.51	0636	0.55	
	1345	4.17	1313	4.58	1248	5.00	1224	5.40	
	○ 2058	0.53	2015	0.70	1943	0.62	1914	0.64	○
5 MO	0205	3.79	0139	4.18	0112	4.46	0048	4.92	5 MO
	0858	0.35	0818	0.50	0744	0.44	0718	0.49	
	1427	4.22	1353	4.62	1329	5.06	1306	5.46	
	2143	0.53	2059	0.68	2028	0.58	1958	0.59	
6 TU	0250	3.79	0222	4.18	0156	4.47	0132	4.95	6 TU
	0941	0.35	0902	0.50	0829	0.44	0802	0.49	
	1514	4.23	1438	4.62	1414	5.05	1351	5.45	
	2229	0.53	2144	0.67	2113	0.56	2043	0.57	
7 WE	0339	3.75	0310	4.15	0243	4.43	0219	4.91	7 WE
	1026	0.39	0948	0.54	0914	0.49	0848	0.56	
	1603	4.19	1528	4.58	1502	4.99	1438	5.39	
	2316	0.52	2231	0.68	2201	0.57	2129	0.60	
8 TH	0431	3.68	0401	4.09	0333	4.37	0308	4.81	8 TH
	1114	0.46	1037	0.63	1003	0.61	0937	0.70	
	1655	4.12	1621	4.49	1553	4.88	1530	5.26	
			2320	0.69	2251	0.60	2219	0.67	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 FR	0006	0.50	0457	4.01	0429	4.28	0404	4.68	9 FR
	0527	3.61	1132	0.76	1056	0.78	1031	0.89	
	1207	0.57	1720	4.36	1651	4.70	1628	5.07	
	1752	4.00			2347	0.65	2314	0.79	
10 SA	0101	0.48	0014	0.73	0538	4.19	0511	4.54	10 SA
	0633	3.55	0603	3.93	1201	0.97	1134	1.10	
	1311	0.69	1234	0.89	1803	4.50	1738	4.84	
	1859	3.84	1831	4.19					
11 SU	0203	0.46	0115	0.78	0050	0.71	0017	0.91	11 SU
	0752	3.55	0723	3.91	0658	4.18	0632	4.48	
	1425	0.76	1347	1.00	1316	1.10	1248	1.25	
	2015	3.70	1949	4.05	1919	4.33	1855	4.64	
12 MO	0307	0.45	0223	0.84	0155	0.77	0125	1.03	12 MO
	0911	3.64	0841	3.99	0814	4.26	0750	4.55	
	1540	0.76	1503	1.02	1430	1.12	1403	1.29	
	2127	3.61	2102	3.97	2029	4.21	2006	4.51	
13 TU	0414	0.49	0333	0.88	0300	0.83	0233	1.09	13 TU
	1020	3.76	0949	4.11	0921	4.38	0858	4.68	
	1656	0.73	1619	0.98	1546	1.08	1518	1.24	
	2232	3.55	2208	3.93	2134	4.14	2113	4.44	
14 WE	0518	0.54	0441	0.88	0407	0.87	0339	1.10	14 WE
	1118	3.85	1046	4.22	1015	4.50	0955	4.84	
	1803	0.68	1726	0.90	1653	0.97	1626	1.12	
	2329	3.52	2305	3.93	2231	4.13	2212	4.46	
15 TH	0614	0.58	0537	0.85	0503	0.86	0437	1.05	15 TH
	1205	3.91	1132	4.31	1100	4.61	1041	4.99	
	1857	0.64	1819	0.84	1745	0.86	1720	0.98	
			2351	3.96	2318	4.18	2300	4.54	
16 FR	0016	3.55	0624	0.80	0550	0.81	0524	0.95	16 FR
	0700	0.60	1210	4.38	1139	4.72	1120	5.12	
	1243	3.97	1904	0.81	1830	0.78	1804	0.87	
	1943	0.63					2341	4.64	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SA	0055 0740 1317 2023	3.61 0.58 4.04 0.62	0032 0704 1246 1945	4.02 0.75 4.46 0.80	0001 0630 1216 1911	4.27 0.75 4.81 0.74	0605 1157 1844	0.85 5.22 0.80	17 SA
18 SU	0133 0817 1352 2100	3.67 0.54 4.08 0.63	0110 0741 1322 2021	4.08 0.71 4.49 0.81	0041 0708 1254 1948	4.34 0.70 4.85 0.74	0020 0642 1233 1920	4.73 0.78 5.26 0.79	18 SU
19 MO	0209 0852 1427 2134	3.70 0.53 4.08 0.66	0147 0816 1358 2055	4.10 0.70 4.49 0.84	0121 0743 1331 2023	4.36 0.69 4.84 0.77	0057 0718 1309 1954	4.76 0.77 5.24 0.82	19 MO
20 TU	0245 0926 1502 2207	3.69 0.56 4.07 0.68	0223 0850 1434 2127	4.08 0.73 4.45 0.86	0157 0817 1407 2056	4.34 0.72 4.80 0.79	0132 0752 1343 2027	4.74 0.81 5.18 0.86	20 TU
21 WE	0320 1000 1537 2240	3.67 0.62 4.05 0.69	0259 0925 1510 2200	4.04 0.78 4.42 0.86	0232 0850 1441 2130	4.30 0.78 4.76 0.80	0207 0826 1418 2100	4.70 0.89 5.12 0.88	21 WE
22 TH	0356 1035 1614 2315	3.65 0.67 4.02 0.68	0335 1000 1547 2234	4.01 0.83 4.39 0.86	0306 0925 1517 2204	4.27 0.85 4.71 0.81	0243 0901 1455 2134	4.65 0.97 5.06 0.91	22 TH
23 FR	0435 1110 1652 2350	3.63 0.73 3.96 0.67	0413 1037 1626 2309	3.99 0.90 4.33 0.87	0342 1001 1554 2240	4.24 0.96 4.62 0.85	0320 0938 1533 2210	4.60 1.07 4.96 0.96	23 FR
24 SA	0515 1148 1733	3.59 0.81 3.85	0452 1115 1707 2346	3.95 1.00 4.22 0.92	0421 1040 1635 2317	4.19 1.09 4.49 0.92	0401 1018 1615 2249	4.54 1.20 4.83 1.06	24 SA

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SU	0028	0.69	0536	3.91	0505	4.13	0445	4.47	25 SU
	0559	3.55	1158	1.12	1122	1.24	1101	1.36	
	1229	0.90	1753	4.07	1720	4.32	1701	4.65	
	1817	3.71			2359	1.02	2332	1.19	
26 MO	0109	0.73	0027	0.99	0558	4.09	0539	4.41	26 MO
	0647	3.53	0627	3.87	1212	1.38	1153	1.52	
	1317	1.00	1246	1.25	1815	4.14	1757	4.45	
	1908	3.57	1847	3.91					
27 TU	0159	0.78	0115	1.08	0049	1.12	0023	1.33	27 TU
	0746	3.55	0731	3.88	0708	4.11	0650	4.40	
	1420	1.09	1350	1.35	1321	1.48	1259	1.64	
	2010	3.45	1955	3.79	1930	4.00	1911	4.30	
28 WE	0304	0.81	0217	1.15	0156	1.18	0128	1.42	28 WE
	0905	3.63	0843	3.97	0820	4.22	0801	4.51	
	1553	1.07	1515	1.34	1449	1.43	1425	1.61	
	2127	3.41	2106	3.76	2041	3.97	2021	4.27	
29 TH	0418	0.78	0335	1.14	0308	1.16	0244	1.38	29 TH
	1015	3.79	0949	4.15	0922	4.41	0903	4.71	
	1705	0.94	1627	1.21	1554	1.28	1533	1.44	
	2235	3.47	2212	3.83	2143	4.02	2123	4.34	
30 FR	0521	0.71	0442	1.03	0409	1.07	0346	1.23	30 FR
	1113	3.97	1046	4.34	1017	4.63	0958	4.95	
	1807	0.82	1729	1.08	1655	1.13	1631	1.23	
	2332	3.57	2310	3.96	2241	4.14	2220	4.50	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SA	0617 1203 1905	0.64 4.12 0.74	0539 1135 1826	0.91 4.51 0.97	0505 1106 1752 2332	0.94 4.83 0.97 4.30	0440 1046 1724 2308	1.04 5.20 1.02 4.71	1 SA
2 SU	0022 0709 1248 1958	3.69 0.58 4.25 0.70	0000 0632 1218 1918	4.09 0.80 4.65 0.90	0557 1151 1844	0.80 5.03 0.83	0530 1129 1814 2353	0.84 5.43 0.83 4.93	2 SU
3 MO	0107 0759 1330 2047	3.82 0.54 4.36 0.67	0045 0721 1259 2007	4.21 0.71 4.77 0.84	0017 0646 1233 1933	4.47 0.65 5.19 0.70	0619 1211 1902	0.65 5.62 0.67	3 MO
4 TU	0151 0847 1413 2135	3.93 0.52 4.45 0.65	0128 0809 1342 2054	4.32 0.65 4.85 0.79	0101 0735 1316 2020	4.63 0.54 5.30 0.60	0037 0708 1255 1949	5.12 0.52 5.75 0.54	4 TU
5 WE	0237 0935 1500 2222	4.02 0.52 4.50 0.62	0213 0858 1427 2140	4.39 0.63 4.88 0.74	0145 0823 1401 2107	4.73 0.49 5.33 0.53	0123 0756 1340 2036	5.24 0.45 5.80 0.46	5 WE
6 TH	0327 1024 1548 2309	4.06 0.55 4.49 0.58	0300 0946 1516 2225	4.42 0.65 4.86 0.71	0231 0911 1448 2152	4.77 0.51 5.29 0.49	0209 0844 1427 2121	5.27 0.45 5.77 0.43	6 TH
7 FR	0417 1112 1637 2355	4.06 0.60 4.43 0.55	0350 1034 1607 2310	4.42 0.71 4.79 0.70	0319 0959 1537 2238	4.75 0.59 5.18 0.48	0257 0931 1515 2205	5.24 0.52 5.66 0.45	7 FR
8 SA	0508 1202 1728	4.04 0.67 4.31	0442 1125 1702 2357	4.39 0.79 4.66 0.71	0411 1048 1630 2326	4.71 0.70 5.02 0.52	0347 1020 1607 2252	5.16 0.65 5.46 0.54	8 SA

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SU	0042	0.53	0541	4.35	0510	4.65	0445	5.04	9 SU
	0604	4.00	1218	0.89	1143	0.86	1113	0.85	
	1257	0.76	1803	4.47	1732	4.78	1707	5.17	
	1825	4.12					2343	0.72	
10 MO	0133	0.56	0047	0.78	0017	0.63	0552	4.90	10 MO
	0712	3.93	0648	4.28	0619	4.57	1215	1.08	
	1358	0.86	1319	1.01	1246	1.03	1816	4.84	
	1934	3.88	1911	4.23	1841	4.51			
11 TU	0230	0.63	0144	0.91	0115	0.81	0041	0.96	11 TU
	0826	3.87	0758	4.22	0729	4.49	0704	4.79	
	1506	0.94	1427	1.13	1354	1.17	1324	1.28	
	2045	3.66	2021	4.00	1949	4.23	1927	4.53	
12 WE	0332	0.74	0249	1.06	0218	1.00	0147	1.20	12 WE
	0936	3.84	0908	4.18	0838	4.44	0815	4.73	
	1620	0.99	1543	1.18	1509	1.25	1441	1.37	
	2153	3.48	2133	3.84	2059	4.02	2039	4.32	
13 TH	0439	0.84	0401	1.14	0327	1.14	0259	1.35	13 TH
	1042	3.84	1015	4.19	0944	4.45	0925	4.75	
	1740	0.93	1703	1.13	1631	1.18	1603	1.31	
	2303	3.40	2246	3.78	2211	3.95	2154	4.28	
14 FR	0546	0.86	0512	1.13	0439	1.15	0412	1.34	14 FR
	1142	3.88	1115	4.24	1043	4.52	1025	4.87	
	1843	0.81	1806	1.01	1733	1.03	1706	1.15	
			2346	3.84	2315	4.02	2253	4.38	
15 SA	0006	3.43	0609	1.03	0535	1.05	0510	1.20	15 SA
	0642	0.81	1203	4.33	1131	4.64	1112	5.02	
	1230	3.95	1856	0.91	1821	0.89	1755	1.00	
	1932	0.72					2336	4.54	
16 SU	0052	3.53	0032	3.94	0002	4.16	0556	1.04	16 SU
	0728	0.75	0655	0.93	0621	0.93	1150	5.17	
	1308	4.04	1243	4.43	1211	4.76	1835	0.89	
	2014	0.68	1938	0.86	1902	0.81			

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 MO	0128 0807 1341 2050	3.64 0.70 4.11 0.70	0108 0734 1317 2014	4.05 0.86 4.51 0.85	0039 0659 1246 1938	4.30 0.84 4.86 0.77	0013 0634 1224 1910	4.69 0.90 5.28 0.83	17 MO
18 TU	0159 0841 1411 2122	3.74 0.68 4.18 0.73	0141 0809 1349 2046	4.14 0.82 4.57 0.86	0113 0733 1318 2010	4.42 0.78 4.93 0.75	0047 0708 1256 1941	4.82 0.82 5.34 0.79	18 TU
19 WE	0228 0913 1442 2151	3.83 0.69 4.23 0.75	0211 0840 1419 2115	4.21 0.81 4.62 0.87	0144 0804 1349 2040	4.50 0.75 4.96 0.73	0118 0739 1326 2011	4.91 0.77 5.38 0.76	19 WE
20 TH	0258 0945 1514 2221	3.91 0.71 4.27 0.75	0241 0911 1450 2143	4.26 0.82 4.65 0.85	0212 0835 1420 2110	4.55 0.74 4.97 0.71	0148 0811 1356 2040	4.96 0.76 5.38 0.72	20 TH
21 FR	0331 1019 1548 2253	3.97 0.74 4.27 0.74	0314 0944 1523 2214	4.29 0.83 4.64 0.83	0242 0908 1452 2141	4.59 0.76 4.95 0.69	0219 0843 1429 2111	4.99 0.76 5.36 0.70	21 FR
22 SA	0407 1053 1623 2324	3.98 0.78 4.21 0.73	0348 1018 1558 2244	4.30 0.87 4.58 0.83	0314 0942 1526 2212	4.60 0.81 4.88 0.71	0252 0917 1503 2143	4.99 0.80 5.29 0.71	22 SA
23 SU	0443 1128 1659 2355	3.96 0.82 4.10 0.72	0423 1053 1634 2315	4.28 0.93 4.48 0.84	0349 1016 1602 2243	4.58 0.89 4.77 0.75	0327 0952 1540 2215	4.96 0.87 5.17 0.76	23 SU
24 MO	0520 1203 1737	3.94 0.86 3.98	0459 1129 1712 2348	4.26 1.00 4.34 0.86	0426 1052 1641 2315	4.55 0.98 4.62 0.79	0405 1028 1619 2250	4.91 0.98 4.99 0.85	24 MO

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 TU	0027	0.70	0540	4.23	0507	4.51	0447	4.84	25 TU
	0600	3.92	1208	1.08	1132	1.09	1109	1.14	
	1241	0.91	1757	4.16	1725	4.43	1705	4.76	
	1821	3.83			2355	0.88	2331	0.99	
26 WE	0106	0.71	0026	0.91	0557	4.44	0537	4.75	26 WE
	0648	3.89	0629	4.17	1223	1.24	1201	1.34	
	1330	0.99	1257	1.20	1819	4.18	1801	4.49	
	1913	3.65	1852	3.95					
27 TH	0156	0.78	0116	1.03	0046	1.04	0023	1.19	27 TH
	0748	3.81	0736	4.11	0709	4.35	0647	4.65	
	1444	1.11	1409	1.33	1340	1.40	1314	1.53	
	2023	3.45	2009	3.76	1941	3.95	1923	4.27	
28 FR	0310	0.89	0227	1.16	0201	1.21	0134	1.37	28 FR
	0923	3.79	0900	4.13	0836	4.38	0812	4.67	
	1621	1.09	1544	1.32	1512	1.37	1450	1.52	
	2154	3.39	2132	3.73	2105	3.90	2043	4.24	
29 SA	0439	0.88	0359	1.17	0330	1.21	0303	1.36	29 SA
	1043	3.92	1015	4.27	0947	4.55	0925	4.86	
	1740	0.96	1703	1.19	1628	1.22	1603	1.31	
	2309	3.49	2248	3.86	2219	4.03	2156	4.41	
30 SU	0552	0.77	0515	1.04	0442	1.06	0415	1.17	30 SU
	1146	4.11	1118	4.49	1049	4.80	1028	5.15	
	1851	0.81	1813	1.01	1740	1.00	1708	1.05	
			2349	4.08	2322	4.29	2256	4.72	
31 MO	0012	3.68	0620	0.87	0546	0.85	0517	0.89	31 MO
	0655	0.66	1209	4.69	1139	5.07	1118	5.48	
	1238	4.30	1910	0.85	1836	0.76	1805	0.76	
	1948	0.69					2345	5.05	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 TU	0101	3.89	0038	4.29	0010	4.57	0612	0.60	1 TU
	0751	0.57	0715	0.72	0641	0.62	1202	5.76	
	1321	4.46	1252	4.87	1223	5.30	1853	0.51	
	○ 2038	0.62	1959	0.74	1925	0.55			
2 WE	0144	4.08	0121	4.46	0052	4.82	0028	5.33	2 WE
	0842	0.52	0805	0.61	0730	0.45	0702	0.36	
	1402	4.58	1333	4.99	1304	5.46	1244	5.96	
	2124	0.58	2045	0.66	2009	0.41	1938	0.32	
3 TH	0225	4.22	0203	4.59	0133	5.00	0111	5.53	3 TH
	0930	0.51	0852	0.56	0816	0.36	0749	0.22	
	1443	4.64	1416	5.05	1346	5.51	1327	6.05	
	2209	0.55	2128	0.61	2053	0.32	2021	0.21	
4 FR	0309	4.31	0246	4.66	0215	5.08	0154	5.61	4 FR
	1017	0.53	0938	0.56	0902	0.35	0834	0.19	
	1527	4.63	1500	5.03	1429	5.47	1410	6.02	
	2252	0.54	2209	0.59	2135	0.29	2103	0.17	
5 SA	0354	4.34	0332	4.68	0258	5.09	0238	5.60	5 SA
	1102	0.58	1023	0.60	0946	0.41	0917	0.24	
	1613	4.55	1547	4.94	1515	5.34	1454	5.87	
	2333	0.53	2250	0.59	2216	0.31	2143	0.20	
6 SU	0439	4.32	0419	4.65	0344	5.04	0323	5.51	6 SU
	1148	0.64	1108	0.68	1030	0.52	1000	0.37	
	1659	4.41	1636	4.78	1603	5.14	1540	5.63	
			2331	0.62	2256	0.40	2224	0.32	
7 MO	0015	0.55	0509	4.58	0433	4.94	0411	5.35	7 MO
	0525	4.25	1154	0.79	1117	0.69	1045	0.59	
	1235	0.73	1729	4.54	1656	4.86	1632	5.27	
	1748	4.19			2340	0.58	2307	0.56	
8 TU	0058	0.61	0014	0.72	0530	4.75	0506	5.11	8 TU
	0619	4.10	0605	4.44	1210	0.92	1138	0.90	
	1326	0.85	1246	0.94	1758	4.49	1734	4.83	
	1847	3.88	1829	4.22			2357	0.93	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 WE	0148 0733 1427 2002	0.75 3.89 1.00 3.54	0104 0711 1347 1939	0.90 4.24 1.14 3.87	0031 0641 1315 1910	0.86 4.50 1.18 4.09	0613 1243 1846	4.80 1.25 4.37	9 WE
10 TH	0248 0852 1539 2119	0.93 3.71 1.10 3.28	0206 0825 1503 2059	1.13 4.04 1.29 3.60	0136 0757 1432 2027	1.18 4.27 1.37 3.77	0102 0731 1404 2009	1.34 4.53 1.51 4.04	10 TH
11 FR	0401 1009 1721 2248	1.05 3.63 1.04 3.19	0323 0946 1642 2235	1.30 3.95 1.25 3.55	0253 0916 1616 2208	1.40 4.18 1.32 3.70	0224 0858 1546 2146	1.61 4.43 1.49 4.00	11 FR
12 SA	0525 1125 1833	1.01 3.70 0.78	0454 1105 1757 2347	1.27 4.04 1.01 3.72	0426 1037 1725 2327	1.37 4.28 1.06 3.90	0358 1019 1659 2255	1.59 4.58 1.24 4.21	12 SA
13 SU	0009 0633 1221 1921	3.33 0.85 3.85 0.59	0603 1201 1847	1.08 4.21 0.80	0530 1133 1813	1.15 4.49 0.83	0505 1111 1747 2336	1.35 4.82 0.99 4.46	13 SU
14 MO	0053 0721 1259 2001	3.52 0.70 4.00 0.52	0032 0650 1240 1926	3.92 0.89 4.37 0.70	0009 0615 1210 1851	4.13 0.94 4.67 0.69	0551 1147 1824	1.08 5.05 0.82	14 MO
15 TU	0124 0800 1330 2034	3.68 0.62 4.12 0.54	0105 0728 1311 1959	4.08 0.78 4.50 0.67	0038 0652 1238 1923	4.34 0.78 4.83 0.61	0007 0628 1216 1856	4.70 0.87 5.23 0.70	15 TU
16 WE	0150 0833 1357 2104	3.83 0.61 4.22 0.60	0131 0800 1337 2029	4.22 0.72 4.60 0.69	0102 0723 1304 1951	4.52 0.69 4.95 0.58	0035 0658 1243 1924	4.91 0.71 5.36 0.61	16 WE

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TH	0213	3.97	0156	4.34	0126	4.66	0102	5.07	17 TH
	0902	0.63	0828	0.70	0750	0.62	0727	0.60	
	1423	4.31	1402	4.69	1330	5.03	1309	5.46	
	2131	0.64	2055	0.70	2018	0.54	1950	0.53	
18 FR	0237	4.11	0221	4.43	0150	4.77	0128	5.18	18 FR
	0931	0.64	0856	0.69	0819	0.57	0754	0.52	
	1451	4.37	1429	4.74	1357	5.06	1335	5.50	
	2158	0.64	2122	0.69	2045	0.51	2018	0.47	
19 SA	0306	4.21	0250	4.48	0216	4.84	0155	5.24	19 SA
	1002	0.65	0926	0.69	0849	0.56	0824	0.48	
	1521	4.37	1458	4.73	1426	5.04	1403	5.49	
	2227	0.64	2149	0.68	2113	0.50	2046	0.44	
20 SU	0338	4.22	0320	4.48	0245	4.86	0224	5.24	20 SU
	1035	0.68	0958	0.72	0921	0.59	0855	0.50	
	1554	4.28	1529	4.66	1457	4.96	1433	5.41	
	2255	0.64	2217	0.68	2141	0.52	2114	0.45	
21 MO	0411	4.18	0352	4.45	0317	4.83	0255	5.20	21 MO
	1107	0.71	1030	0.76	0952	0.64	0926	0.56	
	1627	4.15	1601	4.54	1530	4.85	1506	5.27	
	2324	0.62	2246	0.68	2209	0.54	2143	0.49	
22 TU	0444	4.13	0425	4.41	0351	4.80	0328	5.15	22 TU
	1139	0.73	1103	0.81	1024	0.70	0958	0.65	
	1701	4.01	1637	4.39	1606	4.70	1543	5.09	
	2353	0.57	2316	0.66	2239	0.56	2215	0.57	
23 WE	0521	4.08	0503	4.37	0430	4.73	0407	5.06	23 WE
	1213	0.74	1138	0.86	1059	0.79	1035	0.81	
	1743	3.84	1719	4.20	1648	4.49	1627	4.83	
			2351	0.69	2315	0.65	2252	0.73	
24 TH	0029	0.55	0548	4.28	0516	4.60	0453	4.90	24 TH
	0607	3.99	1223	0.98	1145	0.98	1122	1.07	
	1257	0.81	1812	3.93	1739	4.18	1720	4.48	
	1835	3.61					2343	1.02	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 FR	0117	0.64	0039	0.84	0004	0.88	0554	4.66	25 FR
	0706	3.81	0650	4.10	0617	4.37	1231	1.39	
	1405	0.96	1330	1.18	1253	1.25	1840	4.14	
	1945	3.32	1928	3.64	1855	3.83			
26 SA	0228	0.83	0149	1.07	0116	1.19	0053	1.35	26 SA
	0846	3.64	0823	3.98	0759	4.21	0733	4.49	
	1547	1.02	1511	1.27	1441	1.35	1418	1.51	
	2135	3.22	2109	3.55	2043	3.72	2020	4.06	
27 SU	0408	0.90	0331	1.17	0304	1.27	0236	1.45	27 SU
	1026	3.78	0955	4.10	0928	4.36	0905	4.64	
	1721	0.88	1646	1.12	1614	1.17	1548	1.29	
	2303	3.41	2239	3.76	2213	3.95	2148	4.31	
28 MO	0538	0.75	0502	1.01	0433	1.07	0404	1.21	28 MO
	1136	4.04	1108	4.37	1038	4.67	1018	5.01	
	1841	0.65	1804	0.85	1733	0.84	1702	0.93	
			2344	4.08	2318	4.33	2252	4.73	
29 TU	0010	3.71	0614	0.76	0543	0.75	0514	0.82	29 TU
	0650	0.56	1201	4.64	1130	5.00	1110	5.41	
	1229	4.28	1900	0.62	1826	0.52	1756	0.56	
	1937	0.47					2338	5.14	
30 WE	0057	3.99	0031	4.36	0003	4.68	0607	0.44	30 WE
	0745	0.42	0709	0.55	0635	0.46	1152	5.73	
	1311	4.45	1243	4.84	1212	5.26	1841	0.27	
	2024	0.39	1945	0.49	1910	0.30			
31 TH	0135	4.20	0110	4.57	0040	4.97	0018	5.47	31 TH
	0833	0.36	0756	0.42	0721	0.26	0653	0.16	
	1347	4.56	1321	4.97	1250	5.43	1232	5.95	
	○ 2107	0.38	2027	0.42	1952	0.16	1922	0.08	○

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 FR	0210	4.36	0147	4.72	0117	5.17	0057	5.68	1 FR
	0918	0.36	0840	0.36	0804	0.16	0736	0.00	
	1425	4.61	1359	5.02	1329	5.48	1311	6.03	
	2148	0.39	2107	0.40	2031	0.11	2002	-0.02	
2 SA	0248	4.45	0227	4.78	0154	5.26	0137	5.77	2 SA
	1002	0.39	0922	0.37	0846	0.16	0818	-0.04	
	1505	4.57	1441	4.98	1409	5.41	1351	5.96	
	2227	0.40	2146	0.41	2110	0.12	2040	-0.03	
3 SU	0328	4.47	0309	4.77	0234	5.26	0217	5.75	3 SU
	1045	0.43	1004	0.43	0927	0.22	0859	0.02	
	1548	4.46	1524	4.85	1452	5.25	1433	5.78	
	2306	0.43	2224	0.44	2148	0.20	2118	0.05	
4 MO	0409	4.41	0352	4.70	0316	5.17	0258	5.62	4 MO
	1127	0.50	1045	0.52	1008	0.34	0938	0.17	
	1631	4.29	1609	4.66	1537	5.02	1516	5.50	
	2343	0.47	2302	0.50	2224	0.33	2155	0.22	
5 TU	0451	4.29	0437	4.58	0400	5.00	0341	5.41	5 TU
	1209	0.58	1127	0.64	1049	0.52	1019	0.41	
	1717	4.04	1657	4.39	1625	4.70	1604	5.12	
			2341	0.62	2302	0.55	2234	0.51	
6 WE	0021	0.57	0527	4.38	0448	4.74	0429	5.08	6 WE
	0538	4.08	1212	0.81	1135	0.79	1104	0.76	
	1253	0.70	1751	4.03	1720	4.30	1658	4.63	
	1809	3.69			2346	0.89	2318	0.94	
7 TH	0103	0.74	0026	0.82	0551	4.36	0527	4.66	7 TH
	0638	3.77	0626	4.09	1235	1.12	1203	1.21	
	1347	0.87	1308	1.03	1832	3.83	1808	4.11	
	1921	3.29	1858	3.62					
8 FR	0201	0.97	0124	1.11	0051	1.30	0019	1.45	8 FR
	0808	3.45	0741	3.78	0715	3.99	0647	4.23	
	1457	1.02	1421	1.24	1353	1.39	1328	1.57	
	2049	2.98	2025	3.30	1958	3.47	1940	3.73	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SA	0323	1.14	0246	1.34	0221	1.58	0152	1.81	9 SA
	0934	3.31	0911	3.61	0845	3.82	0829	4.04	
	1648	1.00	1609	1.25	1557	1.38	1526	1.58	
	2236	2.96	2221	3.31	2211	3.48	2141	3.76	
10 SU	0504	1.06	0431	1.30	0414	1.50	0346	1.75	10 SU
	1100	3.42	1047	3.74	1028	3.97	1011	4.25	
	1815	0.66	1738	0.94	1712	1.03	1647	1.24	
			2334	3.60	2321	3.83	2251	4.11	
11 MO	0000	3.24	0549	1.01	0521	1.16	0458	1.38	11 MO
	0620	0.76	1148	4.00	1126	4.26	1105	4.59	
	1202	3.65	1827	0.66	1756	0.73	1732	0.92	
	1901	0.40			2358	4.14	2328	4.46	
12 TU	0039	3.53	0017	3.89	0603	0.86	0540	1.02	12 TU
	0706	0.53	0635	0.75	1159	4.50	1137	4.87	
	1241	3.86	1226	4.22	1830	0.55	1805	0.69	
	1937	0.31	1903	0.52			2354	4.75	
13 WE	0107	3.75	0047	4.11	0023	4.39	0613	0.75	13 WE
	0743	0.43	0710	0.61	0636	0.66	1202	5.08	
	1311	4.01	1254	4.38	1223	4.69	1833	0.53	
	2008	0.33	1934	0.47	1859	0.45			
14 TH	0131	3.92	0111	4.27	0043	4.59	0018	4.99	14 TH
	0814	0.43	0740	0.55	0705	0.54	0641	0.55	
	1336	4.12	1317	4.49	1245	4.82	1226	5.24	
	2036	0.39	2002	0.48	1924	0.40	1859	0.41	
15 FR	0152	4.06	0133	4.39	0103	4.76	0043	5.16	15 FR
	0843	0.46	0808	0.52	0731	0.46	0708	0.41	
	1400	4.20	1340	4.57	1307	4.91	1250	5.34	
	● 2102	0.44	2028	0.50	1950	0.36	1925	0.32	●
16 SA	0213	4.20	0156	4.48	0124	4.88	0107	5.27	16 SA
	0911	0.47	0835	0.51	0758	0.40	0735	0.32	
	1425	4.26	1404	4.62	1332	4.95	1313	5.38	
	2128	0.45	2053	0.50	2015	0.34	1951	0.27	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SU	0239	4.28	0222	4.52	0148	4.94	0130	5.31	17 SU
	0942	0.48	0904	0.50	0827	0.37	0803	0.28	
	1454	4.25	1430	4.60	1359	4.92	1338	5.36	
	2156	0.45	2120	0.49	2043	0.33	2019	0.25	
18 MO	0310	4.28	0251	4.50	0216	4.95	0156	5.30	18 MO
	1014	0.50	0936	0.52	0858	0.39	0833	0.30	
	1527	4.15	1500	4.51	1430	4.83	1407	5.27	
	2225	0.44	2148	0.49	2111	0.34	2047	0.28	
19 TU	0343	4.21	0322	4.44	0248	4.91	0226	5.24	19 TU
	1047	0.52	1008	0.56	0930	0.43	0904	0.37	
	1600	3.99	1533	4.38	1503	4.70	1440	5.11	
	2254	0.42	2218	0.48	2140	0.36	2116	0.33	
20 WE	0417	4.12	0357	4.38	0323	4.84	0300	5.16	20 WE
	1119	0.53	1041	0.60	1001	0.49	0936	0.47	
	1636	3.82	1610	4.22	1541	4.53	1518	4.91	
	2325	0.38	2250	0.47	2210	0.41	2148	0.44	
21 TH	0455	4.02	0436	4.30	0403	4.73	0339	5.03	21 TH
	1153	0.53	1117	0.66	1036	0.59	1012	0.64	
	1718	3.62	1653	4.01	1624	4.30	1603	4.63	
			2328	0.53	2248	0.55	2227	0.65	
22 FR	0002	0.39	0523	4.16	0451	4.52	0427	4.82	22 FR
	0541	3.86	1203	0.79	1122	0.81	1100	0.92	
	1238	0.60	1749	3.72	1718	3.97	1700	4.27	
	1812	3.36			2339	0.85	2319	0.99	
23 SA	0052	0.52	0019	0.72	0553	4.21	0531	4.50	23 SA
	0644	3.62	0626	3.93	1236	1.12	1212	1.28	
	1350	0.76	1313	1.00	1842	3.61	1825	3.93	
	1931	3.07	1911	3.42					
24 SU	0208	0.75	0135	0.97	0059	1.21	0036	1.37	24 SU
	0833	3.43	0804	3.76	0738	3.99	0714	4.27	
	1526	0.79	1453	1.07	1424	1.20	1403	1.39	
	2131	3.07	2102	3.40	2039	3.60	2014	3.91	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 MO	0351	0.80	0318	1.04	0254	1.25	0226	1.45	25 MO
	1012	3.58	0943	3.89	0916	4.14	0853	4.43	
	1706	0.64	1632	0.89	1606	0.98	1539	1.14	
	2300	3.38	2233	3.72	2210	3.95	2145	4.27	
26 TU	0530	0.61	0453	0.84	0430	0.96	0400	1.13	26 TU
	1122	3.85	1056	4.17	1027	4.47	1008	4.80	
	1824	0.38	1747	0.60	1718	0.61	1650	0.74	
			2332	4.08	2308	4.37	2244	4.73	
27 WE	0001	3.74	0603	0.56	0534	0.60	0507	0.70	27 WE
	0640	0.38	1148	4.43	1118	4.77	1059	5.17	
	1214	4.07	1839	0.39	1807	0.33	1740	0.39	
	1917	0.23			2350	4.71	2326	5.13	
28 TH	0045	4.01	0016	4.36	0623	0.33	0556	0.33	28 TH
	0732	0.25	0655	0.36	1157	4.99	1139	5.45	
	1255	4.21	1228	4.59	1849	0.15	1822	0.14	
	2002	0.19	1923	0.29					
29 FR	0120	4.20	0052	4.54	0024	4.97	0003	5.43	29 FR
	0818	0.20	0740	0.26	0706	0.15	0639	0.07	
	1329	4.30	1304	4.69	1233	5.12	1216	5.62	
	○ 2042	0.21	2002	0.25	1928	0.06	1901 -0.01	○	
30 SA	0151	4.34	0127	4.66	0057	5.14	0039	5.62	30 SA
	0901	0.21	0821	0.23	0747	0.07	0720 -0.07		
	1405	4.33	1340	4.73	1310	5.16	1253	5.67	
	2120	0.23	2041	0.25	2005	0.03	1938 -0.07		

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 SU	0225	4.40	0204	4.70	0133	5.21	0117	5.68	1 SU
	0943	0.23	0902	0.25	0827	0.07	0759	-0.09	
	1444	4.28	1419	4.67	1350	5.08	1333	5.59	
	2158	0.26	2118	0.27	2042	0.07	2015	-0.04	
2 MO	0304	4.37	0244	4.65	0211	5.17	0155	5.61	2 MO
	1023	0.28	0942	0.31	0906	0.14	0838	-0.01	
	1526	4.14	1502	4.52	1432	4.90	1413	5.40	
	2235	0.30	2155	0.33	2118	0.18	2051	0.09	
3 TU	0344	4.26	0327	4.53	0251	5.03	0235	5.44	3 TU
	1103	0.34	1021	0.40	0945	0.27	0916	0.15	
	1609	3.94	1545	4.30	1515	4.66	1455	5.11	
	2310	0.37	2232	0.41	2153	0.34	2127	0.29	
4 WE	0425	4.09	0410	4.36	0333	4.82	0316	5.19	4 WE
	1142	0.41	1100	0.51	1023	0.45	0954	0.38	
	1652	3.68	1630	4.03	1600	4.35	1540	4.76	
	2344	0.47	2309	0.54	2229	0.57	2204	0.58	
5 TH	0508	3.86	0456	4.14	0418	4.53	0400	4.85	5 TH
	1222	0.51	1141	0.66	1104	0.69	1035	0.71	
	1740	3.36	1719	3.71	1651	3.98	1630	4.32	
			2351	0.75	2308	0.90	2245	1.00	
6 FR	0019	0.64	0548	3.85	0511	4.15	0452	4.43	6 FR
	0600	3.54	1232	0.87	1157	1.00	1128	1.13	
	1310	0.66	1821	3.34	1758	3.56	1734	3.86	
	1842	2.98					2340	1.48	
7 SA	0106	0.89	0045	1.02	0002	1.33	0604	3.99	7 SA
	0716	3.18	0657	3.52	0630	3.74	1250	1.50	
	1417	0.80	1340	1.07	1315	1.29	1905	3.52	
	2016	2.70	1946	3.05	1927	3.25			
8 SU	0242	1.11	0206	1.26	0146	1.64	0116	1.85	8 SU
	0854	2.99	0824	3.30	0802	3.51	0741	3.75	
	1537	0.82	1506	1.13	1446	1.35	1430	1.57	
	2159	2.74	2141	3.07	2134	3.29	2107	3.57	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 MO	0421	1.03	0342	1.26	0332	1.58	0305	1.80	9 MO
	1018	3.06	1005	3.37	0945	3.60	0932	3.88	
	1728	0.61	1651	0.93	1637	1.08	1612	1.29	
	2323	3.08	2258	3.40	2248	3.68	2221	3.96	
10 TU	0547	0.73	0513	0.99	0456	1.22	0431	1.43	10 TU
	1125	3.31	1113	3.64	1052	3.90	1035	4.23	
	1821	0.34	1748	0.65	1723	0.77	1700	0.96	
			2342	3.75	2325	4.05	2259	4.36	
11 WE	0005	3.44	0604	0.70	0538	0.87	0514	1.04	11 WE
	0636	0.45	1154	3.90	1129	4.18	1111	4.53	
	1209	3.56	1825	0.46	1755	0.55	1733	0.70	
	1857	0.20			2351	4.34	2327	4.68	
12 TH	0036	3.71	0014	4.02	0610	0.63	0546	0.74	12 TH
	0714	0.30	0640	0.51	1155	4.38	1137	4.75	
	1243	3.72	1224	4.08	1823	0.41	1801	0.51	
	1929	0.18	1857	0.37			2352	4.92	
13 FR	0102	3.88	0040	4.20	0013	4.56	0615	0.53	13 FR
	0746	0.28	0711	0.43	0638	0.48	1202	4.89	
	1310	3.81	1249	4.19	1218	4.51	1828	0.39	
	1959	0.22	1925	0.36	1850	0.34			
14 SA	0124	4.00	0103	4.31	0034	4.71	0017	5.07	14 SA
	0816	0.30	0740	0.40	0706	0.39	0643	0.39	
	1334	3.87	1312	4.26	1241	4.59	1227	4.97	
	● 2026	0.26	1952	0.36	1916	0.30	1855	0.30	●
15 SU	0146	4.09	0127	4.37	0055	4.81	0041	5.14	15 SU
	0846	0.32	0808	0.38	0734	0.33	0710	0.30	
	1359	3.91	1336	4.28	1306	4.62	1249	4.99	
	2054	0.27	2019	0.35	1943	0.26	1921	0.24	
16 MO	0213	4.15	0152	4.39	0120	4.86	0104	5.17	16 MO
	0919	0.32	0839	0.37	0804	0.29	0740	0.26	
	1429	3.90	1403	4.26	1334	4.59	1314	4.98	
	2124	0.25	2048	0.33	2012	0.23	1950	0.22	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 TU	0245	4.14	0223	4.35	0151	4.86	0131	5.15	17 TU
	0953	0.32	0913	0.38	0837	0.29	0812	0.27	
	1504	3.81	1435	4.18	1407	4.50	1345	4.90	
	2156	0.23	2120	0.32	2044	0.24	2021	0.26	
18 WE	0321	4.06	0258	4.29	0226	4.79	0204	5.09	18 WE
	1028	0.33	0948	0.40	0911	0.33	0846	0.33	
	1542	3.66	1511	4.05	1444	4.36	1421	4.76	
	2228	0.21	2154	0.33	2117	0.28	2054	0.33	
19 TH	0359	3.94	0336	4.20	0304	4.69	0241	4.98	19 TH
	1103	0.34	1024	0.44	0946	0.40	0921	0.43	
	1621	3.47	1553	3.88	1526	4.19	1503	4.56	
	2304	0.22	2231	0.36	2152	0.38	2129	0.47	
20 FR	0440	3.79	0420	4.09	0348	4.54	0324	4.82	20 FR
	1142	0.36	1105	0.51	1025	0.52	1000	0.60	
	1707	3.26	1641	3.68	1613	3.96	1551	4.30	
	2346	0.29	2315	0.46	2235	0.57	2212	0.71	
21 SA	0531	3.60	0511	3.93	0438	4.31	0415	4.58	21 SA
	1233	0.43	1157	0.63	1117	0.72	1052	0.87	
	1807	3.03	1741	3.44	1713	3.68	1653	4.00	
					2331	0.88	2309	1.05	
22 SU	0041	0.46	0013	0.65	0544	4.01	0522	4.28	22 SU
	0638	3.36	0617	3.72	1236	0.94	1209	1.14	
	1347	0.51	1309	0.77	1850	3.47	1824	3.76	
	1941	2.86	1910	3.25					
23 MO	0202	0.65	0133	0.83	0100	1.17	0033	1.36	23 MO
	0824	3.23	0753	3.58	0728	3.82	0704	4.09	
	1513	0.48	1438	0.78	1411	0.94	1350	1.18	
	2128	3.01	2059	3.36	2037	3.60	2010	3.87	
24 TU	0342	0.63	0308	0.82	0246	1.12	0219	1.34	24 TU
	0954	3.35	0926	3.68	0859	3.94	0837	4.21	
	1643	0.33	1606	0.61	1542	0.74	1519	0.96	
	2247	3.36	2217	3.70	2155	3.97	2132	4.23	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 WE	0515 1102 1756 2343	0.43 3.53 0.16 3.68	0435 1036 1718 2313	0.63 3.88 0.40 4.01	0415 1008 1651 2250	0.83 4.17 0.47 4.33	0346 0949 1626 2228	1.04 4.48 0.66 4.63	25 WE
26 TH	0622 1154 1850	0.23 3.67 0.08	0543 1128 1811 2356	0.41 4.05 0.27 4.22	0516 1059 1741 2330	0.53 4.36 0.29 4.58	0450 1041 1716 2309	0.68 4.73 0.41 4.94	26 TH
27 FR	0027 0714 1236 1933	3.89 0.13 3.76 0.08	0635 1209 1854	0.27 4.15 0.21	0605 1139 1822	0.32 4.50 0.18	0539 1121 1758 2344	0.39 4.90 0.24 5.16	27 FR
28 SA	0102 0759 1311 ○ 2013	4.02 0.11 3.82 0.10	0031 0719 1245 1934	4.34 0.20 4.21 0.19	0004 0647 1215 1901	4.77 0.19 4.59 0.12	0621 1158 1836	0.20 5.01 0.14	28 SA
29 SU	0132 0841 1347 2050	4.10 0.11 3.84 0.11	0105 0801 1321 2011	4.42 0.19 4.23 0.19	0036 0728 1252 1938	4.89 0.13 4.62 0.10	0019 0701 1235 1912	5.29 0.10 5.04 0.11	29 SU
30 MO	0206 0921 1426 2126	4.12 0.13 3.79 0.13	0142 0841 1401 2049	4.43 0.21 4.17 0.21	0112 0807 1333 2014	4.92 0.13 4.54 0.15	0055 0740 1314 1949	5.30 0.09 4.96 0.17	30 MO
31 TU	0244 1001 1508 2202	4.05 0.17 3.65 0.18	0222 0919 1442 2126	4.35 0.27 4.02 0.28	0151 0845 1415 2050	4.84 0.21 4.38 0.26	0134 0818 1355 2025	5.20 0.18 4.79 0.30	31 TU

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 WE	0324	3.91	0305	4.20	0231	4.67	0214	5.01	1 WE
	1039	0.22	0957	0.35	0923	0.33	0855	0.33	
	1550	3.46	1525	3.82	1457	4.16	1436	4.56	
	2237	0.26	2203	0.38	2124	0.42	2101	0.50	
2 TH	0404	3.74	0347	4.03	0311	4.47	0254	4.77	2 TH
	1116	0.28	1034	0.45	0959	0.48	0932	0.53	
	1631	3.25	1607	3.60	1539	3.91	1518	4.28	
	2310	0.37	2239	0.51	2158	0.63	2137	0.75	
3 FR	0445	3.55	0429	3.84	0353	4.23	0335	4.50	3 FR
	1153	0.34	1113	0.55	1038	0.65	1011	0.76	
	1715	3.01	1651	3.37	1625	3.65	1605	3.98	
	2343	0.50	2318	0.67	2235	0.89	2216	1.06	
4 SA	0530	3.32	0515	3.62	0439	3.94	0422	4.20	4 SA
	1235	0.42	1158	0.68	1124	0.86	1058	1.05	
	1807	2.77	1745	3.13	1724	3.36	1702	3.67	
					2320	1.22	2305	1.41	
5 SU	0022	0.69	0006	0.87	0540	3.61	0522	3.86	5 SU
	0625	3.03	0612	3.36	1231	1.07	1206	1.32	
	1333	0.52	1257	0.83	1847	3.16	1822	3.44	
	1928	2.56	1901	2.93					
6 MO	0121	0.92	0115	1.08	0043	1.54	0021	1.73	6 MO
	0754	2.77	0729	3.13	0709	3.35	0646	3.61	
	1448	0.55	1413	0.91	1351	1.15	1332	1.44	
	2106	2.60	2033	2.94	2016	3.18	1955	3.45	
7 TU	0326	0.94	0246	1.12	0228	1.55	0205	1.76	7 TU
	0924	2.75	0854	3.08	0830	3.31	0811	3.58	
	1559	0.46	1528	0.85	1501	1.07	1448	1.35	
	2222	2.88	2155	3.18	2140	3.46	2118	3.72	
8 WE	0442	0.72	0402	0.97	0344	1.32	0323	1.53	8 WE
	1032	2.90	1011	3.23	0945	3.48	0932	3.76	
	1704	0.30	1635	0.67	1607	0.88	1555	1.12	
	2315	3.23	2249	3.51	2230	3.81	2211	4.08	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 TH	0544 1125 1757 2355	0.46 3.11 0.16 3.51	0507 1105 1727 2328	0.73 3.45 0.48 3.80	0447 1037 1658 2306	1.01 3.71 0.67 4.12	0425 1026 1642 2248	1.20 4.01 0.88 4.40	9 TH
10 FR	0630 1206 1839	0.27 3.26 0.09	0554 1143 1807	0.53 3.63 0.36	0528 1114 1736 2335	0.74 3.90 0.51 4.34	0507 1102 1719 2319	0.91 4.21 0.69 4.62	10 FR
11 SA	0027 0709 1239 1914	3.68 0.18 3.34 0.09	0001 0632 1214 1841	3.99 0.40 3.73 0.31	0603 1145 1808	0.55 4.02 0.41	0541 1133 1750 2347	0.69 4.33 0.56 4.74	11 SA
12 SU	0054 0744 1306 1947	3.78 0.17 3.39 0.09	0029 0706 1242 1912	4.09 0.35 3.79 0.28	0001 0635 1213 1839	4.47 0.45 4.09 0.34	0613 1159 1820	0.55 4.40 0.46	12 SU
13 MO	0120 0820 1335 2019	3.84 0.17 3.44 0.08	0057 0740 1309 1944	4.12 0.33 3.81 0.26	0027 0707 1241 1910	4.56 0.38 4.13 0.28	0013 0645 1224 1851	4.81 0.46 4.44 0.39	13 MO
14 TU	0150 0856 1408 2054	3.88 0.17 3.45 0.05	0126 0816 1340 2018	4.13 0.31 3.81 0.23	0056 0742 1313 1944	4.61 0.33 4.12 0.22	0038 0719 1252 1924	4.84 0.41 4.46 0.35	14 TU
15 WE	0225 0935 1447 2131	3.88 0.16 3.40 0.03	0200 0853 1416 2056	4.11 0.30 3.76 0.22	0130 0819 1351 2021	4.61 0.31 4.07 0.22	0110 0755 1328 2000	4.84 0.40 4.42 0.38	15 WE
16 TH	0305 1014 1529 2209	3.81 0.17 3.30 0.04	0239 0933 1457 2136	4.06 0.31 3.67 0.24	0209 0858 1432 2100	4.56 0.33 3.97 0.27	0147 0834 1409 2038	4.79 0.43 4.33 0.46	16 TH

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 FR	0348	3.71	0322	3.98	0252	4.46	0229	4.68	17 FR
	1055	0.18	1014	0.34	0940	0.38	0914	0.52	
	1615	3.15	1543	3.55	1518	3.84	1455	4.18	
	2250	0.10	2220	0.30	2142	0.39	2120	0.60	
18 SA	0435	3.56	0410	3.89	0339	4.31	0316	4.54	18 SA
	1139	0.20	1100	0.38	1025	0.47	0959	0.64	
	1707	2.99	1635	3.41	1610	3.68	1547	3.99	
	2338	0.21	2310	0.40	2230	0.59	2208	0.81	
19 SU	0529	3.39	0504	3.75	0431	4.11	0409	4.34	19 SU
	1233	0.23	1154	0.45	1120	0.58	1054	0.81	
	1811	2.86	1739	3.27	1715	3.52	1651	3.80	
					2331	0.83	2309	1.06	
20 MO	0037	0.37	0011	0.53	0538	3.87	0517	4.11	20 MO
	0635	3.21	0610	3.58	1231	0.68	1207	0.94	
	1341	0.22	1300	0.50	1850	3.47	1822	3.71	
	1940	2.83	1907	3.21					
21 TU	0157	0.49	0126	0.63	0056	1.01	0031	1.23	21 TU
	0805	3.08	0735	3.44	0712	3.71	0649	3.96	
	1455	0.16	1416	0.49	1350	0.66	1328	0.95	
	2110	3.01	2040	3.36	2017	3.63	1954	3.85	
22 WE	0328	0.44	0250	0.60	0227	0.96	0200	1.19	22 WE
	0927	3.09	0859	3.44	0833	3.70	0811	3.96	
	1610	0.08	1532	0.41	1505	0.57	1444	0.85	
	2222	3.29	2151	3.61	2128	3.90	2106	4.12	
23 TH	0450	0.28	0409	0.48	0347	0.77	0320	1.00	23 TH
	1034	3.14	1008	3.50	0940	3.77	0921	4.05	
	1719	0.02	1640	0.32	1614	0.46	1552	0.71	
	2318	3.50	2247	3.82	2223	4.13	2203	4.38	
24 FR	0558	0.14	0517	0.35	0453	0.56	0427	0.77	24 FR
	1131	3.18	1105	3.56	1035	3.84	1019	4.14	
	1816	0.01	1737	0.25	1708	0.37	1646	0.59	
			2333	3.94	2307	4.29	2247	4.57	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 SA	0005	3.62	0613	0.26	0544	0.41	0519	0.58	25 SA
	0653	0.07	1151	3.60	1120	3.89	1104	4.22	
	1217	3.21	1824	0.22	1753	0.32	1731	0.50	
	1902	0.03			2343	4.39	2325	4.70	
26 SU	0043	3.69	0011	4.01	0629	0.32	0604	0.44	26 SU
	0740	0.05	0659	0.22	1200	3.94	1143	4.28	
	1256	3.24	1230	3.64	1834	0.28	1812	0.43	
	1943	0.04	1905	0.20					
27 MO	0117	3.72	0047	4.05	0019	4.46	0001	4.77	27 MO
	0822	0.05	0742	0.21	0710	0.28	0645	0.38	
	1333	3.27	1307	3.66	1239	3.97	1222	4.31	
	○ 2020	0.02	1944	0.19	1912	0.26	1850	0.41	
28 TU	0151	3.72	0125	4.04	0056	4.46	0039	4.77	28 TU
	0902	0.06	0822	0.23	0750	0.29	0725	0.38	
	1412	3.26	1347	3.62	1321	3.94	1302	4.28	
	2056	0.02	2022	0.21	1949	0.29	1928	0.45	
29 WE	0229	3.66	0205	3.97	0136	4.39	0118	4.68	29 WE
	0940	0.09	0900	0.28	0828	0.36	0803	0.45	
	1453	3.18	1427	3.53	1402	3.83	1342	4.18	
	2132	0.06	2059	0.27	2024	0.37	2005	0.55	
30 TH	0307	3.56	0247	3.85	0215	4.25	0157	4.53	30 TH
	1017	0.14	0936	0.34	0904	0.44	0840	0.56	
	1532	3.06	1507	3.39	1442	3.69	1421	4.04	
	2206	0.14	2135	0.36	2058	0.49	2040	0.70	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
1 FR	0345	3.44	0327	3.73	0253	4.11	0235	4.36	1 FR
	1051	0.17	1010	0.40	0938	0.52	0915	0.68	
	1611	2.94	1546	3.27	1521	3.55	1500	3.89	
	2239	0.23	2211	0.45	2132	0.63	2115	0.86	
2 SA	0423	3.32	0406	3.61	0331	3.96	0314	4.21	2 SA
	1124	0.18	1046	0.43	1014	0.58	0951	0.79	
	1651	2.83	1626	3.17	1601	3.43	1541	3.74	
	2313	0.31	2248	0.53	2208	0.78	2152	1.03	
3 SU	0503	3.18	0447	3.49	0410	3.80	0355	4.04	3 SU
	1200	0.18	1124	0.47	1052	0.66	1031	0.91	
	1735	2.72	1711	3.07	1648	3.31	1629	3.61	
	2351	0.42	2330	0.64	2249	0.97	2234	1.22	
4 MO	0548	3.00	0532	3.33	0456	3.60	0442	3.84	4 MO
	1242	0.21	1209	0.54	1137	0.77	1118	1.06	
	1827	2.62	1807	2.98	1751	3.20	1730	3.49	
					2337	1.19	2326	1.42	
5 TU	0036	0.56	0020	0.76	0557	3.37	0544	3.62	5 TU
	0639	2.78	0626	3.13	1239	0.89	1220	1.20	
	1336	0.27	1304	0.64	1906	3.18	1846	3.45	
	1946	2.57	1920	2.95					
6 WE	0136	0.70	0126	0.88	0056	1.36	0039	1.56	6 WE
	0750	2.59	0736	2.97	0717	3.20	0701	3.47	
	1449	0.30	1415	0.69	1354	0.92	1337	1.26	
	2112	2.70	2036	3.04	2017	3.30	1956	3.56	
7 TH	0332	0.68	0250	0.87	0234	1.29	0211	1.52	7 TH
	0923	2.54	0849	2.91	0826	3.17	0811	3.43	
	1557	0.23	1523	0.64	1456	0.87	1443	1.20	
	2213	2.94	2140	3.24	2120	3.52	2101	3.76	
8 FR	0439	0.48	0358	0.73	0335	1.10	0317	1.33	8 FR
	1026	2.62	0956	2.98	0928	3.23	0917	3.50	
	1654	0.13	1621	0.52	1551	0.76	1539	1.06	
	2303	3.17	2234	3.47	2211	3.76	2156	4.00	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
9 SA	0536	0.28	0456	0.57	0432	0.88	0413	1.11	9 SA
	1118	2.73	1051	3.09	1023	3.34	1015	3.62	
	1744	0.04	1711	0.40	1640	0.64	1627	0.91	
	2346	3.35	2318	3.65	2253	3.96	2240	4.20	
10 SU	0626	0.14	0547	0.43	0521	0.69	0501	0.91	10 SU
	1201	2.83	1136	3.21	1109	3.45	1058	3.73	
	1829	-0.01	1755	0.31	1724	0.54	1709	0.78	
			2356	3.75	2329	4.10	2316	4.33	
11 MO	0022	3.46	0632	0.35	0604	0.57	0542	0.76	11 MO
	0711	0.07	1214	3.29	1147	3.53	1133	3.82	
	1238	2.90	1835	0.25	1803	0.44	1747	0.67	
	1910	-0.04					2348	4.42	
12 TU	0056	3.53	0031	3.81	0003	4.20	0622	0.65	12 TU
	0755	0.05	0715	0.31	0645	0.48	1205	3.91	
	1314	2.98	1249	3.35	1222	3.61	1825	0.57	
	● 1949	-0.08	1915	0.21	1842	0.34			●
13 WE	0131	3.58	0106	3.85	0037	4.28	0020	4.49	13 WE
	0837	0.04	0757	0.28	0726	0.41	0702	0.57	
	1352	3.05	1325	3.40	1259	3.67	1239	3.99	
	2030	-0.11	1956	0.17	1923	0.26	1905	0.50	
14 TH	0210	3.62	0144	3.87	0115	4.32	0057	4.53	14 TH
	0921	0.04	0840	0.25	0808	0.36	0745	0.52	
	1434	3.09	1404	3.42	1340	3.70	1319	4.03	
	2112	-0.11	2040	0.15	2006	0.24	1948	0.49	
15 FR	0253	3.61	0226	3.87	0157	4.31	0138	4.53	15 FR
	1005	0.03	0923	0.23	0852	0.34	0829	0.50	
	1520	3.07	1448	3.41	1424	3.69	1403	4.02	
	2156	-0.08	2125	0.17	2052	0.28	2033	0.53	
16 SA	0339	3.56	0312	3.84	0242	4.25	0222	4.48	16 SA
	1049	0.03	1008	0.23	0938	0.34	0914	0.51	
	1609	3.02	1536	3.37	1512	3.64	1450	3.96	
	2243	0.00	2214	0.22	2139	0.37	2119	0.61	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
17 SU	0428	3.46	0401	3.78	0329	4.14	0309	4.39	17 SU
	1135	0.02	1054	0.23	1024	0.35	1000	0.54	
	1701	2.96	1628	3.32	1604	3.57	1542	3.88	
	2333	0.10	2305	0.29	2229	0.51	2209	0.73	
18 MO	0519	3.33	0453	3.67	0421	3.98	0401	4.25	18 MO
	1225	0.00	1144	0.24	1115	0.37	1050	0.60	
	1800	2.91	1729	3.27	1708	3.52	1644	3.79	
					2326	0.67	2306	0.87	
19 TU	0031	0.22	0003	0.37	0524	3.79	0503	4.06	19 TU
	0617	3.16	0552	3.52	1212	0.41	1148	0.67	
	1322	-0.02	1240	0.27	1828	3.52	1802	3.76	
	1915	2.90	1846	3.26					
20 WE	0142	0.31	0109	0.43	0039	0.80	0014	0.99	20 WE
	0730	2.97	0705	3.33	0643	3.59	0620	3.86	
	1425	-0.03	1344	0.30	1317	0.46	1253	0.74	
	2036	2.98	2006	3.33	1943	3.59	1920	3.82	
21 TH	0301	0.30	0222	0.45	0157	0.82	0130	1.04	21 TH
	0849	2.83	0822	3.19	0757	3.44	0736	3.71	
	1531	-0.03	1452	0.33	1424	0.50	1402	0.80	
	2146	3.10	2115	3.43	2052	3.71	2030	3.93	
22 FR	0419	0.23	0337	0.43	0314	0.76	0247	1.00	22 FR
	0959	2.73	0934	3.09	0906	3.33	0847	3.61	
	1638	-0.01	1601	0.33	1532	0.53	1512	0.82	
	2248	3.20	2217	3.52	2153	3.80	2134	4.04	
23 SA	0533	0.14	0450	0.37	0428	0.65	0403	0.89	23 SA
	1104	2.67	1042	3.06	1011	3.28	0958	3.57	
	1741	0.02	1704	0.32	1637	0.54	1617	0.80	
	2342	3.26	2311	3.57	2246	3.88	2229	4.14	
24 SU	0635	0.04	0554	0.30	0528	0.52	0505	0.75	24 SU
	1202	2.67	1139	3.07	1109	3.29	1055	3.61	
	1835	0.03	1759	0.29	1730	0.51	1711	0.75	
			2358	3.61	2331	3.93	2314	4.23	

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	KALURGHAT		SADARGHAT		KHAL-10		KHAL-18		
	Time	m	Time	m	Time	m	Time	m	
25 MO	0028	3.29	0646	0.25	0617	0.44	0554	0.64	25 MO
	0726	-0.01	1226	3.11	1158	3.34	1140	3.68	
	1249	2.72	1845	0.26	1815	0.46	1757	0.68	
	1919	0.01					2354	4.29	
26 TU	0107	3.33	0039	3.64	0011	3.99	0638	0.57	26 TU
	0810	-0.03	0731	0.23	0701	0.39	1220	3.75	
	1329	2.78	1306	3.16	1239	3.41	1839	0.62	
	1958	-0.02	1927	0.24	1856	0.41			
27 WE	0142	3.36	0118	3.66	0049	4.02	0032	4.33	27 WE
	0850	-0.02	0811	0.24	0741	0.39	0717	0.55	
	1406	2.84	1343	3.20	1318	3.46	1257	3.80	
	○ 2033	-0.04	2005	0.23	1932	0.40	1917	0.61 ○	
28 TH	0217	3.35	0156	3.65	0127	4.01	0109	4.31	28 TH
	0925	0.01	0846	0.26	0817	0.42	0754	0.57	
	1441	2.86	1419	3.19	1356	3.47	1334	3.80	
	2107	-0.02	2040	0.26	2006	0.42	1951	0.65	
29 FR	0251	3.32	0234	3.62	0203	3.96	0144	4.25	29 FR
	0956	0.05	0919	0.29	0849	0.45	0828	0.62	
	1515	2.85	1453	3.17	1430	3.44	1407	3.77	
	2140	0.02	2113	0.29	2038	0.46	2024	0.72	
30 SA	0326	3.28	0309	3.58	0236	3.90	0217	4.18	30 SA
	1026	0.06	0948	0.29	0918	0.45	0859	0.65	
	1549	2.84	1527	3.15	1502	3.42	1440	3.74	
	2214	0.07	2147	0.32	2111	0.50	2056	0.78	
31 SU	0401	3.23	0344	3.54	0309	3.84	0250	4.12	31 SU
	1056	0.03	1019	0.26	0949	0.43	0929	0.66	
	1625	2.83	1601	3.15	1535	3.41	1515	3.71	
	2249	0.10	2222	0.33	2146	0.56	2130	0.83	

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

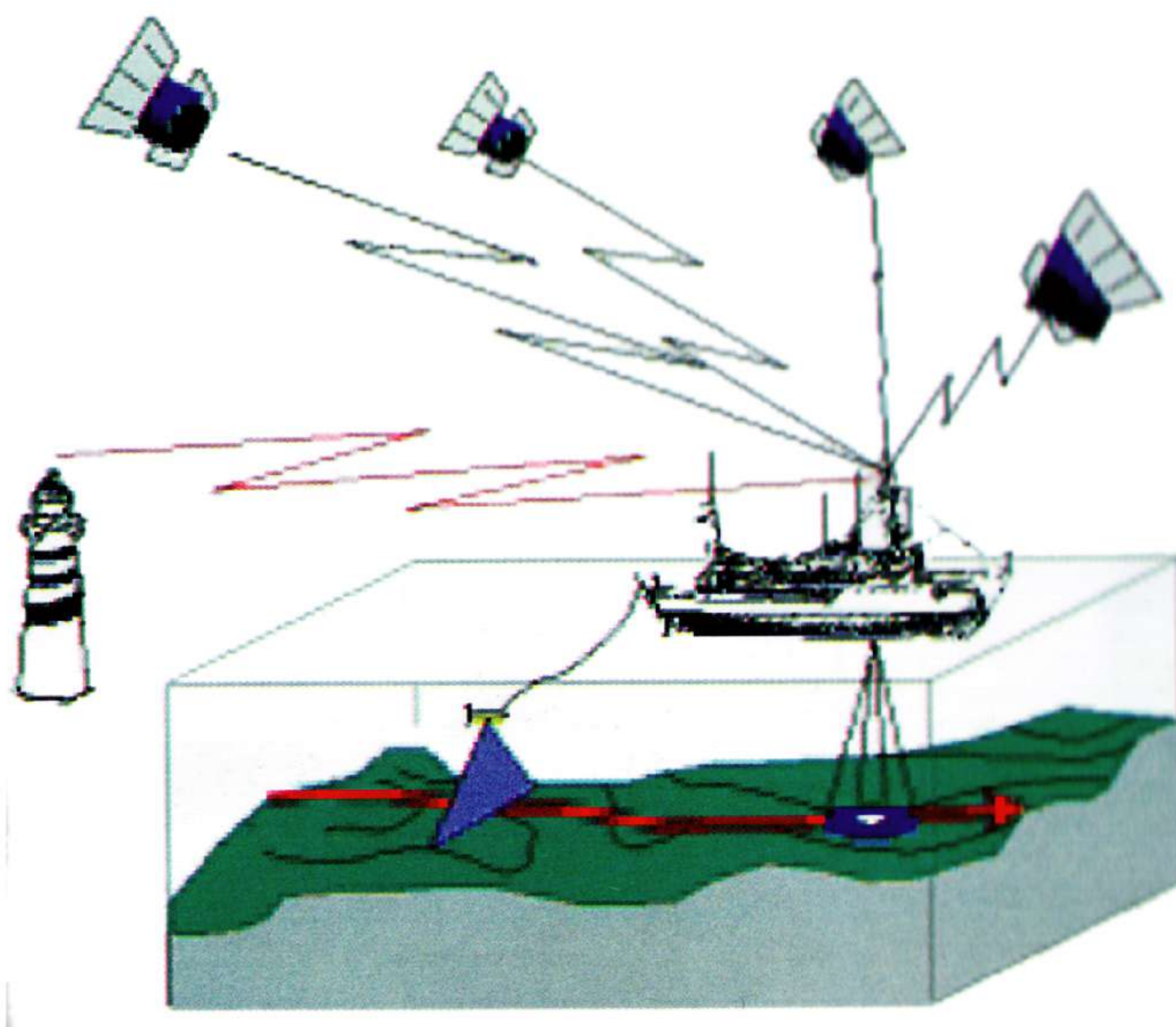
(Based on Hydrographic Survey Charts: 2012-13)

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"

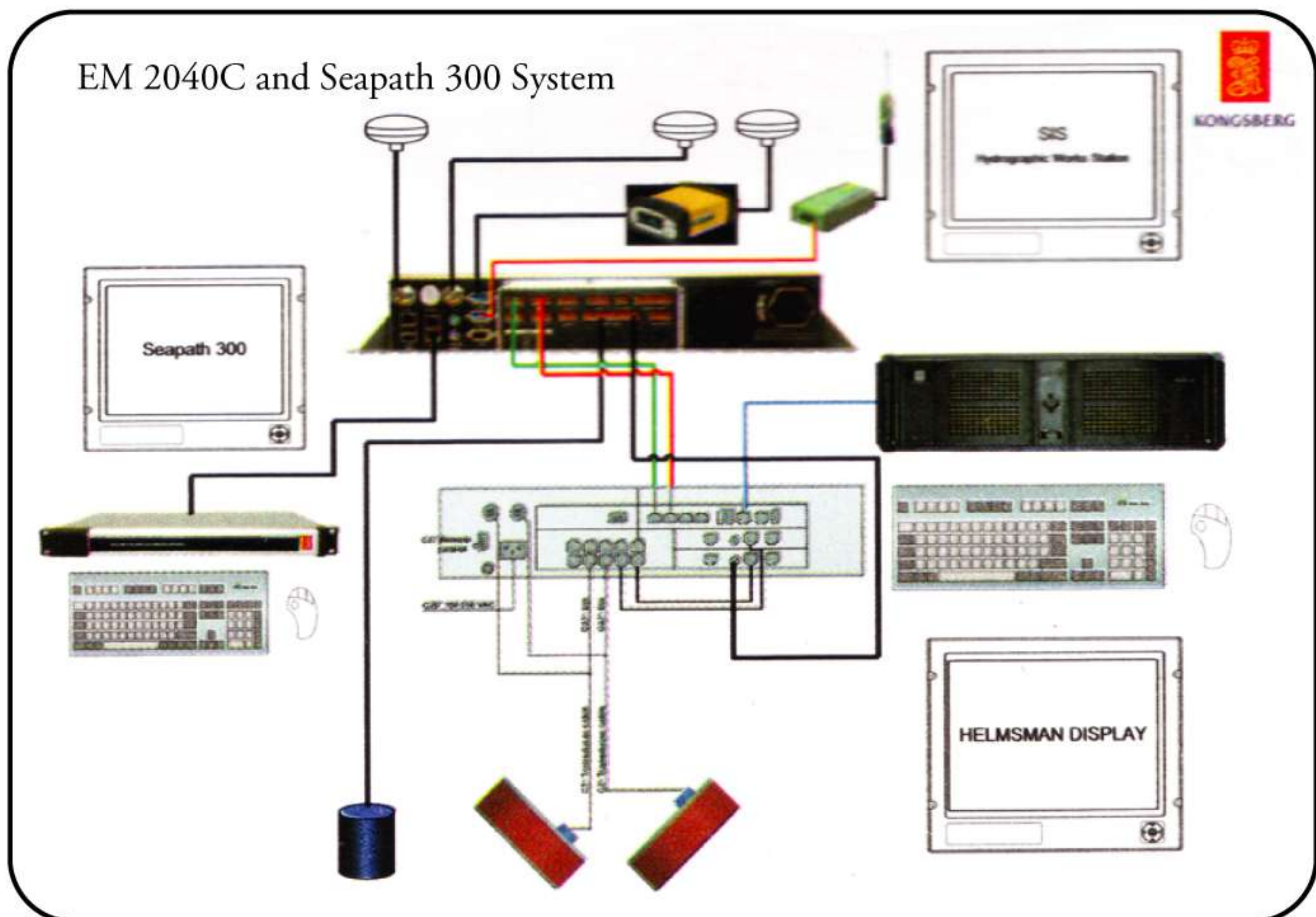
*Auto Tide Gauge Station
&
Hydrographic Survey Equipment*



**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**



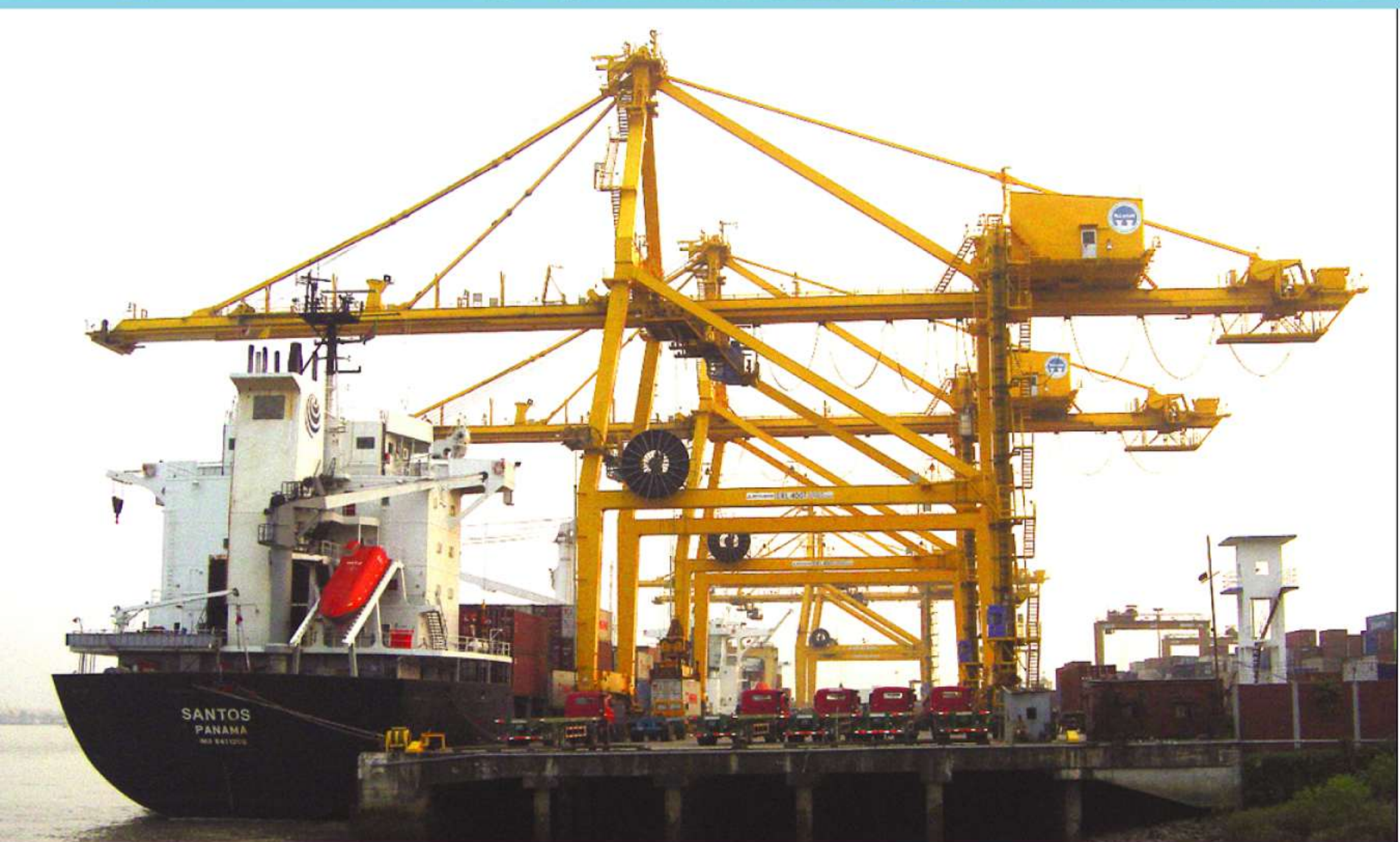
Auto Tide Gauge Station at **Khal No-10**



Auto Tide Gauge Station at **Khal 18**



Auto Tide Gauge Station at **Kaptai**





CHITTAGONG PORT APPROACH

KARNAPHULI & OUTER ANCHORAGE

