

STEEL STEAMER or MOTORSHIP.

Received at London Office

11 JAN 1932

State if Report has been sent on the Freeboard of the Vessel **Yes (Kobe).**State if Report is sent on the Machinery of the Vessel **Yes.**Date of completion of report **14th December 1931.**Port of **NAGASAKI.**No. **1808**Survey held at **NAGASAKI.**Date First Survey **1st October 1930**Last Survey **1st December, 1931.**On the (State if Machinery fitted Aft and if Single, Twin or Triple Screw) **Steel Single Screw Motor Ship "KORYU MARU".**State Type (Full Scantling, Complete Superstructure with or without Tonnage Openings) **Full Scantling.**State Type of Erections **Poop, Bridge & Forecastle.**TONNAGE under Tonnage Deck... **6,048.33**CLASS **+ 100 AI.**State if with freeboard as condition of Class **No**Built at **Nagasaki.**Do. of space or spaces between Tonnage Dk. and Upper Dk. **/**Length from fore part of stem to after part of stern post on summer L.W.L. See Sec. 3 (1a) **L 435.0**Launched **30th Aug. 1931.** Yard No. **486.**Total **6,048.33**Breadth (greatest moulded) **B 58.5**Builders **Nagasaki Works, Mitsubishi Zosen Kaisha, Ltd.,**Gross Tonnage **6,680.10**Depth, at middle of length from top of keel to top of beam at side of uppermost continuous deck. See Sec. 3 (1c) **D 32.833**Owners **Hiroumi Shoji Kabushiki Kaisha.**Register Tonnage **4,767.67**1st Longitudinal Number (L x D) **= 14,281**Managers **/**
(Where necessary to be entered in Reg. Book.)2nd Numeral L x (B + D) **= 39,729**Residence **Osaka.**REGISTERED DIMENSIONS.
FEET.Length **436.4**Framing Depth "d," at middle of length. See Sec. 3 (1d) **19'-4" E, Rm. 20'-7"**Breadth **58.5**Proportions—Depth to Length—Uppermost continuous deck to top of keel **13.25**Port of Registry **Kobe.**Depth **32.8**Do. Long Bridge to top of keel **10.75**

If surveyed while building, afloat, or in dry dock

Draught Moulded **25'-11.31"**

While Building.

FRAMES, DOUBLE BOTTOM AND BEAMS.

	INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
FRAMES, Spacing amidships	33		Bracket Floors, Frame	B.A. 7 3 1/2 .34	
" " from 3/4 length to Collision bulkhead	27		" " Reversed Frame	" 7 3 .34	
" " in peaks	24		" " Vertical Struts	Ch. 11x3 1/2 x 3 1/2 x 46	
SIDE FRAMING.			" " B.A. 7 3 .34		
Frame Amidships, 12' 3 1/2 .46 extends to 2nd dk & U.Dk (or B.Dk. where fitted) alt web cut down to form 7x3 1/2 x .46L between U.Dk and B.Dk.	12' 3 1/2 .46		Centre Girder, depth and thickness amidships	45 .55-.45	
" " Extends up to	/		" " top Angles	D.A. 3 1/2 3 1/2 .53-.49	
Reversed Frame Amidships, Angle	/		" " bottom Angles	D.A. 4 4 .59-.55	
" " Extends up to	/		Side Girders, No. each side and thickness	2 .41	
Depth of Framing Girder	12		Margin Plate depth (excl. of flange) and thickness	40 .55-.53	
Frames in Uppermost Continuous 'tween Decks, 9 3 1/2 .46 and 7 1/2 3 1/2 .46 at alt frames.	9 3 1/2 .46		" " Vertical Angle to Tank side Bracket abaft 15% from stem	3 1/2 3 1/2 .43 in Mach. space.	
" " Second Deck Angle 12' 3 1/2 .46	7 1/2 3 1/2 .46		" " Vertical Angle to Tank side Bracket forward 15% from stem	5 5 .43	
" " Third " " "	/		" " Gussets, spacing and scantling abaft 15% from stem	.41 Continuous plate	
Framing in Peaks, 8 3 .40	8 3 .40		" " Gussets, spacing and scantling forward 15% from stem	.41 Continuous plate	
Diameter and Spacing of Rivets through Frame and Shell Plating amidships	7/8 5 1/2 in Holds.		Tank Side Brackets, height above top of keel at toe of Frame and thickness	84 in Mach. space	
State if Frame Joggled	Yes		INNER BOTTOM PLATING.		
PANTING ARRANGEMENTS (Sec. 7), state system and particulars	Deep frame arrangement Frame 11x3 1/2 x .50 B.A. extending to U.D. or F'cle dk where fitted web cut down to form 9x3 1/2 x .50L between 2nd dk & U.D. or F'cle dk & B.Dk alternately.		Breadth and thickness of Middle Line Strake	.52 in Mach. space	
STRENGTHENING OF BOTTOM FORWARD. State Particulars	7x3 1/2 x .50 Rev. angle fitted below 2nd deck. Girder depth 13" Three strakes of shell plating next to keel maintained .69 at 33" spacing and .65 at 27" spacing, to Coll. Bhd. Additional int. side girders fitted 4'-0" apart & 2 ht. girders extending fwd. as far as practicable.		Thickness of remainder in Holds	.45 - .41 aft.	
SINGLE BOTTOM.			Are Rule requirements complied with regarding increases of scantlings in way of double bottom in E. & B. space and framing in Bunkers and Boiler Room?	8x3x3x.34 (aft-13 & 15' fwd) 9x3x3x.36 (18-28 130-155) 9x3x3x.38 (30-63 110-128) 8x3x3x.38 (64-82) 8x3x3x.46 (83-108) 9x3 1/2 x 3 1/2 x .38 (15-17)	
Floors, Depth and thickness at mid-line in Holds	Three strakes of shell plating next to keel maintained .69 at 33" spacing and .65 at 27" spacing, to Coll. Bhd.		Spacing	Every frame.	
Height of Brackets at side above base line at toe of frame	Additional int. side girders fitted 4'-0" apart & 2 ht. girders extending fwd. as far as practicable.		Second Deck, amidships, 8x3 1/2 x 3 1/2 x .54 (aft-15) 8x3x3x.38 (18-33) 8x3x3x.46 (35-54 86-128) 10 1/2 x 3 1/2 .44 (56-67) 8x3x .42 (69-84) 8x3x3x.34 (120-147) 8x3x3x.48 (149-ford)		
Middle Line Keelson, on Floors, Angles, [or]	as practicable.		Spacing	Every frame.	
" " Through Plate or Intercostal Plate			Fourth Deck, amidships, Angle, [or]	/	
" " Foundation Plate on Floors			Spacing	/	
" " Flat Plate Keel Angles			Poop Deck, Angle, [or]	8x3x3x.34	
Side Keelsons, No. each side			Spacing	Every frame	
" " thickness of Intercostal Plate			Bridge Deck, 8x3 1/2 x 3 1/2 x .54 (aft-15) 8x3x3x.38 (18-33) 8x3x3x.46 (35-54 86-128) 10 1/2 x 3 1/2 .44 (56-67) 8x3x .42 (69-84) 8x3x3x.34 (120-147) 8x3x3x.48 (149-ford)		
" " Angles			Spacing	Every frame	
DOUBLE BOTTOM.			Forecastle Deck, 8x3 1/2 x 3 1/2 x .54 (aft-15) 8x3x3x.38 (18-33) 8x3x3x.46 (35-54 86-128) 10 1/2 x 3 1/2 .44 (56-67) 8x3x .42 (69-84) 8x3x3x.34 (120-147) 8x3x3x.48 (149-ford)		
Solid Floors, thickness and spacing	.43 Every 3rd frame except in Eng. space, fwd. of 3/5 L. and at narrow ends.		Spacing	Every frame	
" " Are Frame and Reversed Frame joggled?	Frame only				
Bracket Floors, breadth and thickness at middle line	34 .43				
" " breadth and thickness at margin plate	38 .43				

PILLARS AND DECKS.

		INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.			INCHES IN SHIP.	Any Departure from Approved Plans to be Noted.
PILLARS, No. of Rows.....				Stringer Plate, breadth and thickness in way of Bridge .....		.42 in way of deep 63 .38 tanks.	
" in 'tween Decks, Size and Spacing.....		Widely Spaced		Thickness of Plating abreast Deck openings in way of Wells .....		.37-.31	
" " " " "		Pillars.		Thickness of Plating abreast Deck openings in way of Bridge .....		.34 .42 in way of deep tank.	
" in Holds " "				Thickness of Plating within line of openings...		.34-.32	
" " " " "				If Sheathed, material and thickness		/	
Centre Line Bulkhead.				Third Deck.			
Stiffeners and Spacing.....				Stringer Plate, breadth and thickness.....			
Plating, thickness of				If Plated, state thickness.....			
STRINGERS AND DECKS.				Fourth Deck.			
Uppermost Continuous Deck.				Stringer Plate, breadth and thickness.....			
Stringer Plate, breadth and thickness in Wells		66 1.00-.60 & .61		If Plated, state thickness			
" " " " in way of Bridge		66 .41		Poop Deck.			
" " " " " "		1.00 & .72 Doubling plates at Bridge ends		Stringer Plate, breadth and thickness		37 .36	
" Angle in Wells		7 7 1.00 to 5 5 .58		Plating, Sheathing, material and thickness ...		.30	
Thickness of Plating abreast Deck openings in way of Wells .....		.78 & .72-.50 & .46		Bridge Deck.			
Thickness of Plating abreast Deck openings in way of Bridge .....		.37 .34 in way of Bridge		Stringer Plate, breadth and thickness.....		60 .55 .44	
Thickness of Plating within line of openings...		.44 & .42		Plating, Sheathing, material and thickness ...		.39 within opening.	
If Sheathed, material and thickness		2 1/2 O.P. Crews space		Forecastle Deck.			
Second Deck.		63 .41 to		Stringer Plate, breadth and thickness.....		35 .36	
Stringer Plate, breadth and thickness in Wells...		36 1/2 .35 at ends.		Plating, Sheathing, material and thickness ...		.35 & .40	

SHELL PLATING.

SCANTLINGS.					RIVETING.								
STRAKES.	AS IN VESSEL.				ANY DEPARTURE FROM APPROVED PLANS TO BE NOTED.	EDGES. No State if joggled?			BUTTS.				
	AMIDSHIPS.		FORWARD.	AFT.		SINGLE OR DOUBLE.	RIVETS.		No. OF ROWS OF RIVETS.	RIVETS.		STRAPPED OR LAPPED.	
	Breadth.	Thickness.	Thickness.	Thickness.			Diam.	Spacing cr. to cr.		Diam.	Spacing cr. to cr.		
	Inches.	Inches.	Inches.	Inches.			Inches.	Inches.		Inches.	Inches.		
FLAT PLATE KEEL	51	.85	.75	.75		Double	1	3 2/3	4-3	1	3.7 & 3.5	Lapped (one strap fitted for)	
„ DBLG. (if any)		/											
BOTTOM PLATING, No. of Strakes	3	.69	.49	.49		Double	7/8	3 1/3	4-3	7/8	3.4 3.1	Lapped	
BILGE PLATING, No. of Strakes	2	.69	.55		Three strakes next to keel maintained by at 33" & 27" spacing to Coll.	"	"	"	"	"	"	"	
SIDE PLATING, No. of Strakes	2	.68	.46	.46		"	"	"	3	"	3.1	"	
UPPER DECK, Sheer-strake in Wells	72	.94	.64	.58		"	1 7/8	3 2/3	5-4-3	1 7/8	3.5 3.1	Lapped or strapped	
UPPER DECK, Sheer-strake in Bridge ...		.80	Doubling plate at Bridge ends.			"	7/8	3 1/3	3	7/8	3.1	Lapped
STRAKE BELOW Sheer-strake in Wells .....		.80	.55	.52		"	7/8	3 1/3	4-3	7/8	3.5	"
STRAKE BELOW Sheer-strake in Bridge ...		.68				"	7/8	3 1/3	3	7/8	3.1	"
POOP SIDE PLATING .....				.40		Single	3/4	3	Single	3/4	2.5	"
BRIDGE SIDE PLATING ...		.62				Double	7/8	3 1/3	4	7/8	3.4	"
FORECASTLE SIDE PLATING			.42			Single	"	3 1/2	Single	3/4	2.6	"	

WATERTIGHT BULKHEADS.

Note:- One bulkhead in forward hold dispensed with.

Total No. of W.T. BULKHEADS in Vessel—

Extending to Upper Deck (Sec. 3 c).....6.

Deck next below.....1.

Rule 7

As per Rule..... **7.**

For particulars of other bulkheads, please see approved plan.

85 .26 5x3x.34A

MIDSHIP BULKH'D, Upper tween decks 27

85 .34- 7x3x.34BA
 .36 in way of F.W. tank

.. .. **RECEIVED**
.. .. .50- 10x3 1/2 x 3 1/2 x .44C

Hold. ~~xxxx~~ " .30 27

Holds 8x3x3x 340 in way of F.O. tank

54- (10x3 1/2 x 3 1/2 x .40C semi box

COLLISION , (in Hold) 156... .28 5x3x.38A 24

AFTER PEAK 8-12.66-8x3x.36 7x2x.34 24 Semibox

6X3X:34 beam.35

Manufacturer's Name or Trade Mark of the Steel used in the construction

Vereinigte Stahlwerke A.G. Hoerder Verein of

STEEL. Hutte of Hamborn. Lanarkshire Steel Co.Ltd.

Consett Iron Co.Ld, Dorman Long & Co.Ld. Ca

Has the Steel been tested as required by the Rules? Yes.

FORGINGS and CASTINGS.

11-11-27	Casting or Forging.	Scantlings.	Maker's Name.	Any departure from approved plans to be noted.
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100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553
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STEM Rolled steel, $10\frac{1}{8} \times 2\frac{5}{8}$ Lanarkshire Steel Works.

STERN } Propeller Post C.S. See Sumitomo Stl Co.
Approved Osaka.

FRAME	Rudder	"	plan.
	"	"	(507)

RUDDER-AxID

Speed of Vessel 12¹/₂ knots

RUDDER mainpiece at head ...	F.S.	11 $\frac{3}{4}$	Nippon Seikoshō. Muroran.
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heel ... $8\frac{3}{4}$

how constructed	Built Stream line.
	.44

double plate
coupling, vertical or
horizontal

of the Vessel (state process of manufacture) Open Hearth Process.

Hoerde. Vereinigte Stahlwerke A.G. August Thyssen-Steel Co of Scotland, Ltd. David Colville & Sons Ltd.

Argo Fleet Iron Co., Ltd. Pease & Partners Ltd.

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EQUIPMENT No. 41230												LETTER bt		ANCHORS. 3B. 1S.	
Number of Certificate.	Anchors.	WEIGHT, EX. STOCK			WEIGHT OF STOCK			TEST, PER CERTIFICATE				WEIGHT REQUIRED BY TABLE 53.	Description of Anchor.	Makers.	Where and when tested and Superintendent.
		Cwts.	qrs.	lbs.	Cwts.	qrs.	lbs.	Tons.	cwts.	qrs.	lbs.	Cwts.			
1493	1st Bower ...	70	0	25				54	-	-	-		Union Stockless	Dortmunder Union	Dortmunder 16-6-30 K.H.
1494	2nd „ ...	70	0	16				54	-	-	-		"	"	" "
1495	3rd „ ...	70	1	6				54	-	-	-		"	"	" "
	Collective weight.	210	2	19								207			
1496	Stream	20	2	17	6	0	7	21	8	-	14		Ordinary Stock	"	" "

CHAIN CABLES.										HAWERS AND WARPS.									
Number of Certificate.	Length and size supplied.		Test per Certificate.		WEIGHT OF CHAIN CABLE.				Length and Size per Table 53.		Description.	Makers of Cables.	Where and when tested, and Superintendent.	Material.	Length and Size supplied.		Breaking Test of Steel Wire.	Length and Size per Table 53.	
	Length.	Diam.	Stain- ing.	Break- ing.	Supplied.	Per Rule.			Length.	Diam.					Length.	Cir.		Length.	Cir.
1737	300 3/8	2 3/8	101 1/2	142 1/2	894-3-18	844 1/2			300	2 3/8	S.I.	Osaka Chain Co.	Osaka. 11 & 13-9-30 Y.Jo.	S.F. TOWLINE...	130	5	76.4	130	5
														HAWERS & WARPS	2-100	8		2-100	8
															2-100	8		2-100	8
XXXX	120	5			58.61				120	5									

Steering Gear, Steam **Brown Bros" Electro Hydraulic.** Steering Gear, Hand **Yes**
 2 in No. 28'-0"x 8'-9"x 3'-6"
 Boats **Temma, 18'-0"x 4'-9"x 1'-9"** Steering Chains, Size and Test **/** Windlass **Atlas Werke Bremen.**
 Ceiling in Holds, thickness and material **2 1/2" Soft wood on 2" battens,** Cargo Battens, thickness, material and spacing **6"x 2" space. 9" apart.**
 Cargo Hatchways.-(Upper Deck) **Plates and angles & wood covers** Thickness of Hatches **3" O.P.**
 Size of No. 1 Hatchway (Forward) **31'-6"x 21'-0"** No. 2 **38'-6"x 21'-0"** No. 3 **24'-9"x 21'-0"** No. 4 **16'-6"x 21'-0"** No. 5 **35'-9"x 21'-0"** No. 6 **33'-0"x 21'-0"**
 Number of Shifting Beams **under Deck** No. 1- 5. No. 2- 6. No. 3- 4. No. 4- 2. No. 5- 6. No. 6- 5.

Builder's Signature

GENERAL MANAGER

GENERAL DECLARATION. It should be stated (a) whether the vessel is fitted for the carriage and burning of oil used as fuel **Yes** (b) whether the vessel, not being an oil tanker, is fitted for carrying oil as cargo **Yes** The positions in which oil is carried as fuel or cargo should be indicated, together with the flash point.

This vessel has been built in accordance with the Rules and Approved plans.
 The materials and workmanship are good.
 The fore and aft peak tanks, deep tank, side tanks in engine room, Fresh water tank, double bottom tanks, weather decks, gutterways and W.T.Bulkheads have been satisfactorily tested.
 The freeboard has been verified and the freeboard marks have been "cut in" on the vessel's side.
 Oil is carried as fuel in the double bottom tanks and side tanks in engine room (Flash point above 150° F).

Note:- **Fitted for carrying cargo oil 12.31 F.P. above 150° F. in Deep tank.**
Owners desire to have this special notation made in the Register Book.

Plans sent under separate cover of:- **Midship Section. Construction Profile & Deck. W.T. & O.T. Bulkhead. W.S. Pillar & Pillar Girder. Shell Expansion. Stem. Rudder and Stern Frame. Auxiliary Engine Seat. Pumping Plan.**
Steel Invoices and Certificates of Castings and Forgings herewith.

The amount of Entry Fee **¥ 100:00** Fees applied for, **2. 12. 19 31**
 Special Survey Fee.... **¥ 5505:00** Received by me, **29. 3. 19 32**
Freeboard. ¥ 180:00 (Kobe charge)
 Travelling Expenses, if any **¥ 55:00**
 State whether the Vessel has been built under Special Survey **Yes.** I am of opinion the Vessel should be Classed **+ 100 AI.**
 Certificate to be sent to **Nagasaki.** Date of issue **19/1/32**
 Signature **George Anderson**
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute **TUE. 19 JAN 1932**

Character assigned **+100A1**

Carrying cargo oil F.P. above 150° F. in Deep Tank

+ d. MC. 12.31 C.L. Oil Eng. D.B. 100 lb.

Lloyd's A + C.P.



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Lloyd's Register Foundation

010369-010377-020322

GENERAL REMARKS—(The Surveyor should state the Number of Report and Name of any Sister Vessel. Plans showing Vessel as built should be forwarded and a List of the Plans should be embodied.)

	Head.	Shank.			
Particulars of Drop Test of Cast Steel Anchors, viz. :—	1st Bower	45-2-13	24-2-12	F.R.	1493. 5-6-30.
Weight, Surveyor's Initials,	2nd "	45-3-20	24-0-24	F.R.	1494. 5-6-30.
Number of Certificate, Date of Test.	3rd "	45-3-9	24-1-25	F.R.	1495. 5-6-30.
	Stream.	20-2-17	-	F.R.	1496. 5-6-30.

PARTICULARS FOR RECORD in the REGISTER BOOK.—Length of Poop 30.42 ft., R.Q.D. -- ft., Bridge 126.58, Forecastle 42.57 ft. (in feet and tenths). When the Poop is joined to the B.D., this should be distinctly stated

Note:— One Bulkhead in forward Hold dispensed with. (Owners letter herewith).

No. and Material of Decks (this information is to be given as it should appear in the Register Book) 2 Dks - stl.

Official No. 37152. ; Signal Letters V.L.P.S. Is bottom of Vessel coated with cement if not give particulars of composition Fore & aft peak tanks, Fresh water tanks, Cofferdam and well coated with cement. Fuel oil tanks not coated.

PARTICULARS OF WATER BALLAST.—

Where Fitted.	*Length. Feet.	Water Capacity. Tons.	Where Fitted.	*Length. Feet.	Water Capacity. Tons.
Double bottom, aft,	143.0	458.64	Fore peak tank,	27.75	258.8
Double bottom, under Engines and Boilers,	/	/	After peak tank,	24.87	223.5
Double bottom, if under Engines only,	45.66	250.91	Deep tank, aft,	35.75	595.1
Double bottom, if under Boilers only,	/	/	Deep tank, forward (Engine Rm P & S)	22.75	563.78
Double bottom, forward,	181.75	672.56	Other tanks, xxxx , aft. " "	22.0	96.5
Total capacity of double bottom	1382.11		(If necessary, furnish further information by sketch.)		67.12

* The wells are not to be included in the lengths of the tanks.

Order for Special Survey No. 95.

Date 5th Nov. 1929.
London.

Dates of Surveys held while building

1930:— Oct 1.10.16.21.24.27.29 Nov 7.12.15.19.25.26 Dec 2.4.6.8.10.12.15.17
1931:— Jan 6.13.14.16.21.27.29 Feb 9.12.18.25.27 Mar 5.12 Apr 7.10.14.23.25
28. May 5.7.18.19.20.21.23.27 June 4.5.8.9.10.12.13.26 July 4.9.18.
20.22.23.24.28 Aug 1.5.7.13.18.20.25.29.30.31 Sep 17.28.29 Oct 2.5.
19.20.24.29 Nov 5.12.20.23.24.25.27 Dec 1.

Total No. of Visits 94.