



**INLAND WATERWAYS AUTHORITY OF INDIA**  
(A Statutory Body under Ministry of Shipping, Govt. of India)  
Head Office A-13, Sector -1, Noida, U.P -201301.

**Examination Notification no : IWAI/R&T/2 /2018, Dated 18/7/2018**

(Attention: All prospective applicants, who had applied for the various floating posts (F.1 to F.6), in response to Advtt no IWAI/SRC/5/2017, Dated 11/10/2017)

**1) Post -wise eligible applicants for various floating posts (F.1 to F.6), against Employment Notice no IWAI/5/2017 dated 11/10/2017:**

i) **List of eligible applicants for the post code / F.1/ Inland Dredge Master -** No applicant found eligible, as per the eligibility criteria for the post.

**List of eligible applicants for the post code / F.2/ Licence Engine Driver -**

Sl. No	Master list Sl. No	Roll no	Name of Applicant	Category
1	F.2 / 01	520172001	Sh. MD. Monisur Rahaman Sekh	UR
2	F.2 / 03	520172002	Sh. Sanjit Das	UR
3	F.2 / 04	520172003	Sh. Ranjit Hira	SC
4	F.2 / 06	520172004	Sh. Santosh Kumar	SC
5	F.2 / 07	520172005	Sh. Biswanath Paul	UR
6	F.2 / 10	520172006	Sh. Prakash Kalita	UR
7	F.2 / 12	520172007	Sh. Goutam Tunga	UR
8	F.2 / 14	520172008	Sh. Habibur Rahaman Molla	UR
9	F.2 / 15	520172009	Sh. Sanjit Kumar Mondal	SC
10	F. 2 / 17	520172010	Sh. Sudeb Mondal	SC
11	F.2/19	520172011	Sh. Subimal Das	OBC
12	F.2 / 20	520172012	Sh. Rajeev Ranjan	OBC
13	F.2 / 21	520172013	Sh. Linu K	UR
14	F. 2 / 22	520172014	Sh. Samir Pramanik	UR
15	F.2 / 24	520172015	Sh. Natabor Sarkar	SC

Total Eligible Candidates - Fifteen (15)

III) List of eligible applicants for the post code / post of F.3/ Dredge Control Operator , against Employment Notice no IWAI/SRC/5/2017, dated 16/10/2017 .-

Sl. No	Master list Sl. No	Roll no	Name of Applicant	Category
1	F.3 / 01	520173001	Sh. Vikrant Kumar	UR
2	F.3 / 02	520173002	Sh. Banty Kumar	OBC
3	F.3 / 04	520173003	Sh. Yedlapalli Rama Krishna	UR
4	F.3 / 07	520173004	Sh. Kulajit Das	OBC
5	F.3 / 08	520173005	Sh. Golam Azad	UR
6	F.3 / 10	520173006	Sh. Ashutosh Kumar	SC
7	F.3 / 14	520173007	Sh. Ashwani Kumar	SC
8	F.3 / 16	520173008	Sh. Sudeb Mondal	SC
9	F.3 / 17	520173009	Sh. Mrinal Mondal	UR
10	F.3 / 20	520173010	Sh. Subhransu Sekhar Maharana	OBC
11	F.3 / 21	520173011	Sh. Chunduri Subba Rao	UR
12	F.3 / 23	520173012	Sh. Narendar Singh	UR
13	F.3 / 27	520173013	Sh. Ripun Chandra Das	SC
14	F.3 / 29	520173014	Sh. Sandeep Kumar	Ex- Service Man
15	F.3 / 30	520173015	Sh. Subash. S	SC
16	F.3 / 32	520173016	Sh. Samit Kumar Jana	UR
17	F.3 / 34	520173017	Sh. Mahesh Kumar Pal	OBC
18	F.3 / 35	520173018	Sh. Krishna Kumar Yadav	OBC
19	F.3 / 38	520173019	Sh. Deepak Kumar Patra	UR
20	F.3 / 39	520173020	Sh. Pratik Roy	SC
21	F.3 / 40	520173021	Sh. Sunil Kumar Mehta	UR
22	F.3 / 41	520173022	Sh. Saurabh Badgaiyan	UR
23	F.3 / 42	520173023	Sh. Akash Dey	UR
24	F.3 / 44	520173024	Sh. Saurabh Srivastava	UR
25	F.3 / 46	520173025	Sh. Chandan Garg	UR
26	F.3 / 47	520173026	Sh. Rohit Mishra	UR
27	F.3 / 50	520173027	Sh. Vijay Pal Singh	SC

28	F.3 / 51	520173028	Sh. Niraj Kumar Yadav	OBC
29	F.3 / 54	520173029	Sh. Vijay Prakash Sharma	UR
30	F.3 / 55	520173030	Sh. Aditya	OBC
31	F.3 / 56	520173031	Sh. Lal Bahadur Chauhan	OBC
32	F.3 / 57	520173032	Sh. Prosenjit Gorai	OBC
33	F.3 / 58	520173033	Sh. Aravind Kumar Patel	OBC
34	F.3 / 59	520173034	Sh. Avanish Kumar Tyagi	OBC
35	F.3 / 60	520173035	Sh. Ajay Kumar Singh	OBC
36	F.3 / 61	520173036	Sh. Vinod Kumar Yadav	OBC
37	F.3/ 65	520173037	Sh. Biswajit Mukherjee	UR
38	F.3 / 66	520173038	Sh. Mahesh Vishwakarma	OBC
39	F.3/ 67	520173039	Sh. Ajay Singh	Ex-Serviceman (OBC)
40	F.3 / 68	520173040	Sh. Ravi	UR
41	F.3 / 69	520173041	Sh. Ranjeet Kumar	OBC
42	F.3 / 70	520173042	Sh. Ranjeet Kumar	OBC
43	F.3 / 72	520173043	Sh. Rakesh Mohanty	UR
44	F.3/ 78	520173044	Sh. Pratik Kumar	UR
45	F.3/ 85	520173045	Sh. Vijaya Kumar K	OBC
46	F.3/ 87	520173046	Sh. Govind Kumar	UR

**Total Eligible Candidates – Fortysix (46)**

**IV) List of eligible applicants for the post code / post of F.4/ Master 2<sup>nd</sup> Class:**

Sl. No	Master list Sl. No	Roll no	Name of Applicant	Category
1	F.4 / 01	520174001	Sh. Khokan Acharjee	UR
2	F.4 / 03	520174002	Sh. Zibanul Haque Mondal	OBC
3	F.4 / 04	520174003	Sh. Sayan Banerjee	UR
4	F.4 / 05	520174004	Sh. Rajkumar Ghosh	OBC
5	F.4 / 07	520174005	Sh. Mithun Khan	OBC
6	F.4 / 08	520174006	Sh. Md. Khalifa Saikh	UR
7	F.4 / 09	520174007	Sh. Manik Mandal	UR
8	F.4 / 10	520174008	Sh. Sachinandan Das	UR

9	F.4 / 11	520174009	Sh. Maruf Ali Molla	OBC
10	F.4 / 12	520174010	Sh. Suraj Khan	UR
11	F.4 / 13	520174011	Sh. Utpal Medhi	SC
12	F.4 / 14	520174012	Sh. Kuheswar Paneng	ST
13	F.4 / 15	520174013	Sh. Suman Kumar	OBC
14	F.4 / 16	520174014	Sh. Sukhen Mondal	SC
15	F.4 / 17	520174015	Sh. Mithilesh Kumar Jha	UR
16	F.4 / 19	520174016	Sh. Nandu Pandey	UR
17	F.4 / 20	520174017	Sh. Nozbul Hassan SK	UR
18	F.4 / 21	520174018	Sh. Arjun S.	OBC
19	F.4 / 22	520174019	Sh. Ardhendu Mondal	SC
20	F.4 / 25	520174020	Sh. Chandan Kumar Rai	UR
21	F.4 / 26	520174021	Sh. Darauddin SK	UR
22	F.4 / 27	520174022	Sh. Rakesh Kumar	UR
23	F.4 / 28	520174023	Sh. SK Rosiful Alam	OBC
24	F.4 / 29	520174024	Sh. Nasir Uddin Molla	UR
25	F.4 / 30	520174025	Sh. Aftab Uddin Shaikh	UR
26	F.4 / 31	520174026	Sh. Santanu Manna	UR
27	F.4 / 33	520174027	Sh. Gopal Mondal	UR
28	F.4 / 35	520174028	Sh. Md. Ruhul Amin Sardar	OBC
29	F.4 / 36	520174029	Sh. Hasibul SK	UR
30	F.4 / 37	520174030	Sh. Kutub Uddin SK	UR
31	F.4 / 39	520174031	Sh. Jinious SK	OBC
32	F.4 / 40	520174032	Sh. Prasenjit Roy	SC
33	F.4 / 43	520174033	Sh. Upendra Kumar Ray	OBC
34	F.4 / 44	520174034	Sh. Subrata Das	UR
35	F.4 / 45	520174035	Sh. Uttam Biswas	UR
36	F.4 / 47	520174036	Sh. Pradeep Kumar Mandal	OBC
37	F.4 / 48	520174037	Sh. Samir Das	UR

38	F.4 / 50	520174038	Sh. Subrata Das	UR
39	F.4 / 51	520174039	Sh. Imran Hosson SK	UR
40	F.4 / 52	520174040	Sh. Pradeep Kumar Behera	UR
41	F.4 / 53	520174041	Sh. Achintya Mandal	SC
42	F.4 / 55	520174042	Sh. Susanta Das	UR
43	F.4 / 56	520174043	Sh. Subhabrata Ghosh	UR
44	F.4 / 57	520174044	Sh. Palas Das	UR
45	F.4 / 58	520174045	Sh. Jayanata Patra	UR
46	F.4 / 60	520174046	Sh. Masud SK	UR
47	F.4 / 61	520174047	Sh. Buddhadeb Pal	UR
48	F.4 / 62	520174048	Sh. Baptu Dalal	UR
49	F.4 / 63	520174049	Sh. Dharmendra Kumar Yadav	UR
50	F.4 / 64	520174050	Sh. Subhankar Ghosh	UR
51	F.4 / 66	520174051	Sh. Johiruddin SK	UR
52	F.4 / 67	520174052	Sh. Toufik Jamal Mondal	UR
53	F.4 / 68	520174053	Sh. Vinod Kumar	SC
54	F.4 / 69	520174054	Sh. Saifuddin Shaikh	UR
55	F.4 / 70	520174055	Sh. Nirupam Sarkar	UR
56	F.4 / 71	520174056	Sh. Kalimuddin SK	UR
57	F.4 / 72	520174057	Sh. Pawan Kumar Singh	UR
58	F.4 / 73	520174058	Sh. Bipul Biswas	SC
59	F.4 / 74	520174059	Sh. Tuhin Kumar Mondal	SC
60	F.4 / 75	520174060	Sh. Abdul Kayum SK	UR
61	F.4 / 77	520174061	Sh. Atiar Rahaman SK	OBC
62	F.4 / 80	520174062	Sh. MD. Shaiful Anam Laskar	OBC
63	F.4 / 82	520174063	Sh. Tajuddin Shaikh	UR
64	F.4 / 83	520174064	Sh. Santanu Guria	UR
65	F.4 / 84	520174065	Sh. Mukul Kumar	OBC
66	F.4 / 85	520174066	Sh. Sanaullah SK	UR

67	F.4 / 86	520174067	Sh. Anup Kumar Adak	UR
68	F.4 / 87	520174068	Sh. Kamal Das	UR
69	F.4 / 88	520174069	Sh. Azzajul SK	OBC
70	F.4 / 91	520174070	Sh. Nuruddin SK	UR
71	F.4 / 93	520174071	Sh. Saddam Hossain SK	UR
72	F.4 / 95	520174072	Sh. Mangalmay Das	UR
73	F.4 / 96	520174073	Sh. Chandan Kumar	UR
74	F.4 / 98	520174074	Sh. Ashok Mondal	UR
75	F.4 / 99	520174075	Sh. Vivek Kumar Singh	UR
76	F.4 / 100	520174076	Sh. Abir Hossain Molla	UR
77	F.4 / 101	520174077	Sh. Rasanth C.R.	OBC
78	F.4 / 104	520174078	Sh. Awadhesh Kumar Singh	OBC
79	F.4 / 105	520174079	Sh. Bhaskar Maji	UR
80	F.4 / 106	520174080	Sh. Narendra Kumar Singh	OBC
81	F.4 / 107	520174081	Sh. Moksedul Molla	UR
82	F.4 / 108	520174082	Sh. Abu Taleb Hossain Molla	UR
83	F.4 / 111	520174083	Sh. Utpal Sarkar	UR
84	F.4 / 112	520174084	Sh. Ganash Jana	UR
85	F.4 / 114	520174085	Sh. Ajmir Hossain SK	UR
86	F.4 / 115	520174086	Sh. Sabir Ali Shaikh	OBC
87	F.4 / 116	520174087	Sh. MD Moktarul Islam Sekh	OBC
88	F.4 / 117	520174088	Sh. Israfil SK	UR
89	F.4 / 118	520174089	Sh. SK Ibrahim	UR
90	F.4 / 119	520174090	Sh. Suraj SK	UR
91	F.4 / 120	520174091	Sh. Gourhari Das	UR
92	F.4 / 123	520174092	Sh. Esmā Azam Sekh	OBC
93	F.4 / 126	520174093	Sh. Nawal Kumar Ray	OBC
94	F.4 / 127	520174094	Sh. Mrityunjay Kumar Singh	UR
95	F.4 / 129	520174095	Sh. Parma Ray	UR

96	F.4 / 130	520174096	Sh. Shibu Dafadar	UR
97	F.4 / 131	520174097	Sh. Pralay Mazumder	SC
98	F.4 / 132	520174098	Sh. Bikash Metya	UR
99	F.4 / 134	520174099	Sh. Sanjay Yadav	OBC
100	F.4 / 137	520174100	Sh. Bishwanath Mondal	SC
101	F.4 / 138	520174101	Sh. Swapan Paramanya	SC
102	F.4 / 139	520174102	Sh. Koushik Das	SC
103	F.4 / 141	520174103	Sh. Raju Mandal	SC
104	F.4 / 142	520174104	Sh. Sanchit Kumar Ray	UR
105	F.4 / 143	520174105	Sh. Debabrata Biswas	SC
106	F.4 / 144	520174106	Sh. Palash Das	UR
107	F.4 / 145	520174107	Sh. Dharmendra Kumar	OBC
108	F.4 / 146	520174108	Sh. Dev Biswas	OBC
109	F.4 / 147	520174109	Sh. Giasuddin SK	UR
110	F.4 / 148	520174110	Sh. Alauddin Sheikh	UR
111	F.4 / 149	520174111	Sh. Jitendra Vishwakarma	OBC
112	F.4 / 150	520174112	Sh. Sunil Kumar Maity	UR

**(Total Eligible Applicants: One Hundred Twelve (112))**

**V) List of eligible applicants for the post code / post of F.5/ Driver First Class :**

Sl. No	Master list Sl. No	Roll no	Name of Applicant	Category
1	F.5 / 03	520175001	Sh. Sanjib Das	UR
2	F.5 / 04	520175002	Sh. Asit Kumar Das	SC
3	F.5 / 05	520175003	Sh. Mrinal Mondal	UR
4	F.5 / 07	520175004	Sh. SK. Anower Hosen	UR
5	F.5 / 10	520175005	Sh. Sri Kanta Mondal	SC
6	F.5 / 13	520175006	Sh. Chandan Bujar Baruah	UR
7	F.5 / 14	520175007	Sh. Kansha Das	SC
8	F.5 / 15	520175008	Sh. Dipankar Das	SC
9	F.5 / 16	520175009	Sh. Alok Kumar Dubey	UR
10	F.5 / 17	520175010	Sh. Arvind Kumar	OBC

11	F.5 / 18	520175011	Sh. Manish Kr. Dubey	UR
12	F.5 / 22	520175012	Sh. Rahul Kumar Singh	OBC
13	F.5 / 23	520175013	Sh. Pankaj Kumar	OBC
14	F.5 / 24	520175014	Sh. Aktar Hossen Shaikh	UR
15	F.5 / 25	520175015	Sh. Dipankar Sarkar	SC
16	F.5 / 27	520175016	Sh. Pankaj Kumar Mondal	SC
17	F.5 / 28	520175017	Sh. Harihar Maity	UR
18	F.5 / 32	520175018	Sh. Rana Pratap Singh	OBC
19	F.5 / 34	520175019	Sh. Subrata Mondal	SC
20	F.5 / 35	520175020	Sh. Brajesh Kumar	UR
21	F.5 / 36	520175021	Sh. Tapas Kumar Das	UR
22	F.5 / 37	520175022	Sh. Ajay Kumar	OBC
23	F.5 / 38	520175023	Sh. Kumar Govind	UR
24	F.5 / 39	520175024	Sh. Gautam Kumar	OBC
25	F.5 / 40	520175025	Sh. Sanjay Singh Yadav	OBC
26	F.5 / 41	520175026	Sh. Mithilesh Kumar Mahato	UR
27	F.5 / 42	520175027	Sh. Prosenjit Dalal	OBC
28	F.5 / 43	520175028	Sh. Bapi Ranjan Mallik	SC
29	F.5 / 47	520175030	Sh. Vikash Kumar Choudhary	SC
30	F.5 / 48	520175031	Sh. Sudeb Mondal	SC
31	F.5 / 49	520175032	Sh. Gyanaranjan Sahoo	OBC
32	F.5 / 51	520175033	Sh. Masnad SK	OBC
33	F.5 / 53	520175034	Sh. Monjur Uddin S.K	OBC
34	F.5 / 54	520175035	Sh. Sanjit Kumar Mondal	SC
35	F.5 / 55	520175036	Sh. Manoj Kumar	SC
36	F.5 / 57	520175037	Sh. Raju Kumar	UR
37	F.5 / 58	520175038	Sh. Anupam Ghosh	UR
38	F.5 / 59	520175039	Sh. Satya Ranjan Giri	UR
39	F.5 / 64	520175040	Sh. Brij Kishor Mishra	UR



40	F.5 / 67	520175041	Sh. Chandra Mani Tiwari	UR
41	F.5 / 73	520175042	Sh. SK Ismail	UR
42	F.5 / 75	520175043	Sh. Deepu V.R.	OBC
43	F.5 / 81	520175044	Sh. Chandi Charan Das	UR
44	F.5 / 84	520175045	Sh. Pulak Chaulia	UR
45	F.5 / 85	520175046	Sh. Sabder Hossain SK	UR
46	F.5 / 97	520175047	Sh. Hare Ram Bhuinya	SC

**Total Eligible Applicants: Forty Six (46)**

**VI) List of eligible applicants for the post code / post of F.4/ Master 2<sup>nd</sup> Class:**

Sl. No	Master list Sl. No	Roll no	Name of Applicant	Category
1	F.6 / 02	520176001	Sh. Chandra Bhushan Tripathi	UR
2	F.6 / 03	520176002	Sh. Rahul Malik	UR
3	F.6 / 04	520176003	Sh. Mainuddin SK	OBC
4	F.6 / 08	520176004	Sh. Indresh Kumar	OBC
5	F.6 / 10	520176005	Sh. Manjeet Kumar Gupta	OBC
6	F.6 / 11	520176006	Sh. MD. Sabirul Haque	OBC
7	F.6 / 13	520176007	Sh. Rakesh Yadav	OBC
8	F.6 / 14	520176008	Sh. Kuldeep Kumar	OBC
9	F.6 / 16	520176009	Sh. Bablu Mondal	SC
10	F.6 / 17	520176010	Sh. Amit Raj	OBC
11	F.6 / 18	520176011	Sh. Supriya Mondal	SC
12	F.6 / 20	520176012	Sh. Rubul Das	SC
13	F.6 / 21	520176013	Sh. Pritam Majumder	UR
14	F.6 / 22	520176014	Sh. Krishna Kant Bharti	SC
15	F.6 / 24	520176015	Sh. Basiruddin Khan	OBC
16	F.6 / 29	520176016	Sh. Ashis Kumar Bauri	SC
17	F.6 / 30	520176017	Sh. Laltu Ghosh	UR
18	F.6 / 31	520176018	Sh. Bapi Ranjan Mallik	SC
19	F.6 / 32	520176019	Sh. Tapas Sardar	SC
20	F.6 / 33	520176020	Sh. Md. Rifaj Uddin Halder	OBC

21	F.6 / 34	520176021	Sh. Santosh Kumar	OBC
22	F.6 / 35	520176022	Sh. Nitesh Pratap	UR
23	F.6 / 36	520176023	Sh. Ajay Kumar Sinha	SC
24	F.6 / 37	520176024	Sh. Prashant Kumar	UR
25	F.6 / 41	520176025	Sh. Salimuddin SK	UR
26	F.6 / 42	520176026	Sh. Polash Bora	SC
27	F.6 / 43	520176027	Sh. Sahid Hasan Molla	UR
28	F.6 / 46	520176028	Sh. Raghuveer Singh	UR
29	F.6 / 49	520176029	Sh. Mahmud Hossain SK	OBC
30	F.6 / 50	520176030	Sh. Mukesh Yadav	OBC
31	F.6 / 51	520176031	Sh. Gyanaranjan Sahoo	OBC
32	F.6 / 52	520176032	Sh. MD Aziz	OBC
33	F.6 / 53	520176033	Sh. Rasanth C.R.	OBC
34	F.6 / 58	520176034	Sh. Pintu Biswas	SC
35	F.6 / 61	520176035	Sh. Birij Raj Yadav	UR
36	F.6 / 63	520176036	Sh. MD. Athar Hussain	UR
37	F.6 / 65	520176037	Sh. Santosh Kumar	SC
38	F.6 / 66	520176038	Sh. Chitrakant Dewangan	OBC
39	F.6 / 68	520176039	Sh. Raju Sarkar	SC
40	F.6 / 70	520176040	Sh. Akash Raj	OBC
41	F.6 / 75	520176041	Sh. Birendra Kumar Ram	SC
42	F.6 / 77	520176042	Sh. Pappu Kumar Yadav	OBC
43	F.6 / 78	520176043	Sh. Chandan Kumar Yadav	OBC
44	F.6 / 81	520176044	Sh. Rupak Das	UR
45	F.6 / 82	520176045	Sh. Shubha Mahal	UR
46	F.6 / 83	520176046	Sh. Bishwajit Samanta	UR
47	F.6 / 85	520176047	Sh. Nitish Kumar	UR
48	F.6 / 86	520176048	Sh. Chiranjit Das	UR
49	F.6 / 88	520176049	Sh. Avijit Mondal	SC

50	F.6 / 90	520176050	Sh. Sumant Kumar	UR
51	F.6 / 91	520176051	Sh. Soumitra Roy	SC
52	F.6 / 93	520176052	Sh. Sunil Kumar	OBC
53	F.6 / 94	520176053	Sh. Radhe Shyam Kumar	OBC

**Total Eligible Applicants: Fifty Three (53)**

**2) Selection process: The Selection process shall involve the following three stages:**

<b>I) Swimming Test :</b>	<b>Qualifying &amp; do not carry any marks.</b>
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The 1<sup>st</sup> stage of selection process shall involve the conduct of Swimming Test of the following component:

- Swimming / any stroke- of 50 meter.
- Floating test – of 10 minutes.
- Jump – 03 meters

The Swimming test shall be qualifying in nature and those candidates who qualify in the Written test shall be allowed in the subsequent selection process viz written test and Job Proficiency trade test.

<b>II) Written Test :</b>	<b>Maximum marks: 60</b>
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In the 2<sup>nd</sup> stage of selection process, there shall be written tests of one hour duration for ascertaining the suitability of post-wise applicants for the above mentioned posts separately,; written test (Q.P to set up bilingual in English and Hindi) shall carrying maximum of 60 marks and shall consist of 60 objective multiple choice questions of one mark each , having two section viz Section A & Section B; Section ‘A’ shall comprise of 45 question of technical / skill based in nature and some question on experience, covering the topics on the skill based relevant eligibility criteria attached to the post as per prescribed syllabus at para-3 ; And Section “B” of 15 Questions shall be from the General awareness and Arithmetic, of the standard of class-X / High Secondary school examination of CBSE . Written test shall be conducted tentatively in the 3<sup>rd</sup>/ 4<sup>th</sup> week of August’2018.

The Qualifying marks for Written Test for the Candidates for the above-mentioned posts shall be as under:

- For General candidates – 30 % of total marks i.e 18 marks out 60 marks
- For OBC candidates - 25% of total marks i.e 15 marks out 60 marks
- For SC/ST candidates – 20% of total marks i.e 12 marks out 60 marks

Candidates qualifying in the Written Test shall only be allowed to appear in the 3<sup>rd</sup> stage of selection process i.e Job Performance Trade Test .

**III) Job Proficiency Trade test****Maximum marks: 40**

This test shall be on technical proficiency in handling the job as per the post requirement shall tentatively commence in 3<sup>rd</sup>/ 4<sup>th</sup> week of August'2018 , and only those who qualified in the Written Test , securing minimum qualifying marks, shall be allowed to appear in the this stage of Selection process. The performance of all candidates on the same shall be assessed by Selection Committee. iii) Combined performance of candidate in the written test and Trade test shall be ascertained by Selection Committee and based upon the same, post-wise merit list shall be prepared and recommended by the Committee for appointment to various floating posts (F.2 to F.6).

3) **All above mentioned eligible applicant at para-1 are hereby informed that Selection process for assessing suitability for selection to various floating posts will be held tentatively in the 3<sup>rd</sup>/ 4<sup>th</sup> week of Aug'2018 . Actual schedule of selection process shall be notified in the website of IWAI, in due course of time and Call letter/ Admit card for attending selection process shall be sent to all eligible candidates by registered / speed post.**

**4) SYLLABUS OF WRITTEN EXAMINATION :**

The post-wise syllabus of Written exam for selection to various floating posts are as detailed below :

<b>POST NAME / POST CODE</b>	<b>LICENCE ENGINE DRIVER / F.2</b>
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**ELEMENTARY MATHEMATICS:**

- (a) Addition, Subtraction, Multiplication, Division, Decimals and Vulgar Fraction.
- (b) Power and roots of numbers, Ratio and proportion, Percentages, Direct and Inverse Variation, Averages.
- (c) Areas and perimeters of a rectangle, triangle and circle, Volumes and Surface areas of box shaped bodies, cylinders pyramids, cones and spheres, Simpson's first and second rules, practical applications involving use of the above. To find out the area of water planes and displacement of boats at different draughts in sea water and fresh water by Simpson's rules as well as by using area co-efficient and prismatic co-efficient.
- (d) Solutions of simple equation, involving use of given formulae, rearrangement of given formulae.
- (e) To calculate the T.P.I. in sea water and fresh water.
- (f) Difference of draughts when boat moves from sea water to fresh water or vice-versa.
- (g) To find out the carrying capacity of the boat.

**2. ENGINEERING KNOWLEDGE:****SECTION-A (GENERAL)**

(i) Fundamental Units, (ii) Density and specific density, (iii) Parallelogram of forces, (iv) The Triangle of Forces, (v) Momentas and levers, (vi) Parallel forces, (vii) Centre of gravity, (viii)

Stress and strain, (ix) Friction, (x) Work, (xi) Temperature scales, (xii) Quantity of heat and specific heats (xiii) Quantity of Electricity and Farad's Laws of Electrolysis, (xiv) Resistivity, (xv) a. Ohm's Law,

b. The measurement of resistance by the Ammeter/Voltmeter Method.

### **SECTION-B: MARINE ENGINEERING:**

- (i) Principal of working construction operation and maintenance of two stroke and four stroke internal combustion engines (Supercharged and naturally aspirated) used on board ship, with particular reference to starting and reversing arrangements and safety devices.
- (ii) General used and application of various materials used in machinery on board of Inland Vessels.
- (iii) The construction, use and principles involved in the action of pressure gauge, thermometer, pyrometer and other measuring instruments commonly used on boards ships.
- (iv) Construction, operation and maintenance of centrifugal bucket and gear type pumps.
- (v) Lay-out and creation of bilge, ballast and fuel systems.
- (vi) Construction, operation and maintenance of steering gears.
- (vii) Lay out and working of electric light and electric power installation with particular reference to safety devices.
- (viii) Construction and care of starting air vessels including mountings.
- (ix) Construction and operation of refrigerating plant.
- (x) Estimation and fuel, lubricating oil and water consumption for given voyage.
- (xi) Work related to dry docking, including propeller, tail, shaft, rudder, sea connections, stern tube, shaft bracket.
- (xii) Elements of boat construction.
- (xiii) Precautions against fire and explosions due to oil vapour or gas, flash point. The danger of oil leakage precautions while bunkering.
- (xiv) Explosion in crank cases and starting air systems.
- (xv) Construction, operation and maintenance of fire fighting appliances.
- (xvi) Knowledge of statutory requirements concerning safety.
- (xvii) Candidates will be expected to draw free hand sketches of machine and engine parts.
- (xviii) Preparation of defect list and procedure of maintaining engine log book.
- (xix) Use and maintenance of life saving appliances.

### **3. ENGINEERING DRAWING :**

Use of drawing instruments, reading of blue prints, production of working drawing of machine and engine parts.

<b>Topics for Basic Dredging</b>	
1	Dredge types, Techniques and Constraints
2	Layout of different dredger and their Equipment
3	Introduction to Pumps
4	Introduction to hydraulics
5	Dredging and different types of dredgers
6	Dredger types, techniques and constraints
7	Layout of different dredger and their Equipment
8	Pumps Performance
9	Introduction of hydraulics
10	TSHD introduction & work method
11	Backhoe introduction & work Method
12	CSD introduction & Work Method
13	Transfer / Transportation f Dredge Material
14	Calculation of Output and Dredger Safety
15	Grab Dredge introduction & work method
16	Types of Soil and Dredger Types

CHAPTER 01

LEGISLATION

- The Inland Vessel Act 1917 as amended in 2007
- Prevention and Control of Pollution and Protection of Inland Waters
- Investigation into Causalities
- Suspension and Cancellation of Certification granted under the Act

CHAPTER 02

THE INLAND WATERWAYS AUTHORITY OF INDIA (IWAI)

- IWAI – Responsibility And Functions
- National Waterways Act 1985

CHAPTER 03

COMPASS WORK

CHAPTER 04

STEERING INLAND VESSEL

CHAPTER 05

NAVIGATION

- National Waterways Safety of Navigation & Shipping Regulation 2002
- Marking the Waterways
- Specification of Life Saving Appliances
- Stowage and Handling of Life Saving Appliances

CHAPTER 06

STORM SIGNALS TIDAL SEMAPHORE

- Storm Signal
- International code of Signals (Intereo)
- Flag Signaling
- Morse Signaling
- Single Letter Signals

CHAPTER 07

RIVER KNOWLEDGE

CHAPTER 08

TIDES

CHAPTER 09

LIGHTS, SOUND SIGNALS AND PREVENTION OF COLLISION STEERING AND SAILING

CHAPTER 10

PROTECTION OF AND CARRAGE OF PASSENGER INLAND VESSEL

CHAPTER 11

LIFE SAVING APPLIANCES TO BE CARRIED ON BOARD INLAND VESSELS

CHAPTER 12

INLAND VESSELS AND FIREFIGHTING EQUIPMENTS

CHAPTER 13

PASSENGER ACCOMODATION

CHAPTER 14

STABILITY

CHAPTER 15

LEADLINE

CHAPTER 16

CARGO WORK

- Loading of Iron Ore
- Loading of Coal
- Loading of Fly Ash
- Loading of Cement
- Loading Over Dimension Cargo
- Loading of Petroleum Products
- Loading of Container

CHAPTER 17

EMERGENCY PROCEDURES ON GROUNDING

CHAPTER 18

BRIDGE EQUIPMENTS

- Echosounder
- Auto Pilot
- Log

- RADAR & ARPA
- GPS & DGPS
- VHF
- Anemometer

<b>POST NAME / POST CODE</b>	<b>ENGINE DRIVER 1<sup>st</sup> CLASS / F.5</b>
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### **1. ELEMENTARY MATHEMATICS:**

- a) Addition, Subtraction, Multiplication, Division, Decimals and Vulgar Fraction.
- b) Power and roots of numbers, Ratio and proportion, Percentages, Direct and Inverse Variation, Averages.
- c) Areas and Perimeters of a rectangle, triangle and circle, Volumes and Surface areas of box shaped bodies, cylinders pyramids, cones and spheres, Simpson's first and second rules, to find out the area of water planes and displacement of boats and different draughts in sea/river/canal water by Simpson's rules as well as by using area co-efficient and prismatic co-efficient.
- d) Solution of simple equation, involving use of given formulae, rearrangement of given formulae.
- e) To calculate the T.P.I (Total Pressure Index) in sea water and fresh water.
- f) To find out the carrying capacity of the boat.

### **2. ENGINEERING KNOWLEDGE:**

(I) Fundamental Units. (II) Density and Specific Density. (III) Parallelogram of forces. (IV) The Triangle of Forces. (V) Moments and Levers. (VI) Parallel Forces. (VII) Centre of Gravity. (VIII) Stress and Strain. (IX) Friction. (X) Work. (XI) Temperature Scale (XII) Quantity of Heat and Specific Heat. (XIII) Quantity of Electricity and Farada's Laws of Electrolysis. (XIV) Resistivity. (XV) Ohm's Law. (XVI) The Measurement of Resistance by the Ammeter Voltmeter Method.

### **SECTION B: MARINE ENGINEERING:**

- (a) Working principle of Marine Engine.
- (b) Difference in between Internal Combustion Engine and External Combustion Engine.
- (c) Name of Principal part of Machinery's.
- (d) Knowledge of what attention is required by the various part of the machinery, use and maintenance of valves, cocks pipes and connections, and familiar with the various methods of supplying air and fuel to the cylinders.
- (e) Cause of defects and their rectification.
- (f) Complete overhauling of the Marine Engines.
- (g) Nature of the properties of the various fuel used in internal combustion engines.
- (h) Precautions against fire and explosions due to oil vapour or gas, flash point. The danger of oil leakage, precautions while bunkering.
- (i) Construction, operation and maintenance of fire fighting appliances.
- (j) Lay out and working of electric light installation and battery installations.
- (k) Dry docking including repairs to the propeller, tail shaft rudder and sea connections, stern tubes, shaft brackets.
- (l) Alignment of Shaft.
- (m) Calculations pertaining to speed, consumption of fuel and fresh water for a given voyage.



