

**INDIAN WATER WORKS ASSOCIATION
MUMBAI CENTRE**

NOTICE

Notice is hereby given that 37th Annual General Meeting of Mumbai Centre of Indian Water Works Association (IWWA) will be held at 7.00 pm on 8th August 2018 in the office of IWWA Head Quarters, Pipeline Road, Vakola, Santacruz (E), Mumbai-400 055.

AGENDA

1. To read the notice convening the meeting.
2. To read and confirm the draft minutes of the last AGM held on 22nd September 2017.
3. To receive and adopt the Draft Annual Report for the period 2017-18
4. To receive and adopt the statement of accounts for the period 2017-18.
5. To appoint the Auditors for the year 2018-19 and fix remuneration.
6. Any other business with permission of the chair and by order of the Managing Committee.

**Sd/-
Er.Pramod B. Dalvi
Hon.Secretary
IWWA, Mumbai Centre**

Date : 23rd July 2018
Mumbai

Note :

- 1) As per the rules of formation and management of Local Centers of Indian Water Works Association, minimum fifteen members (with voting rights and who are not defaulters of IWWA on any account) of the local center present at the meeting shall form quorum for the Annual General Meeting. If required quorum is not there, the meeting shall be recalled after half an hour. Members presents at that time will form the quorum of AGM.
- 2) Please send your queries and questions about the Report And Annual Accounts before 3rd August 2018, to IWWA Mumbai Centre, (email address - pbd159@gmail.com), so that the same could be put up before the Chairman. On the spot queries shall be with permission of the chair.

Draft minutes of the 36th Annual General Meeting of IWWA Mumbai Centre held at 7.00 pm on Friday, 22nd September, 2017 in the office of IWWA Head Quarters Pipeline Road, Vakola, Santacruz (E), Mumbai-400 055.

Hon. Secretary Er. P. B. Dalvi announced adjournment of meeting at 7.00 pm for want of quorum and meeting was held after half an hour at 7.30 p.m. at the office of IWWA Head Quarters Pipeline Road, Vakola, Santacruz (East), Mumbai-400 055. Total 18 members attended the AGM. Hon. Secretary Er. P. B. Dalvi, extended wellcome to all members present for the meeting. proceedings were as under.

1. Hon. Secretary read notice convening the meeting.
2. Hon. Secretary read minutes of the 35th AGM held on 30.09.2016. The minutes were confirmed.

Proposed by : Er. Ulhas Divekar

Seconded by : Er. A. P. Nirbhavane

3. Hon. Secretary read Annual report of IWWA, Mumbai Centre for the year 2016-17. The report was discussed in brief and the same was adopted.

Proposed by : Er. B. S. Sengar

Seconded by : Er. A. V. Deodhar.

4. Hon. Treasurer read Statement of Account IWWA, Mumbai Centre for the year 2016-17. After detailed discussion, the Statement of Accounts was approved.

Proposed by : Er. Arvind Shah

Seconded by : Mr. A. S. Gadge.

5. It was decided to continue with Mr. Manoj Karlekar as Auditor, with the same remuneration for year 2017-18.

Proposed by : Er. U. M. Paranjape

Seconded by : Er. V. S. Doshi

6. Hon. Chairman informed about the National Seminar proposed to be organised by IWWA, Mumbai Center and hosted by IIT, Bombay, in Collaboration with Maharashtra Jeevan Pradhikaran (MJP), Municipal Corporation of Grater Mumbai (MCGM), Water and Sanitation Support Organization (WSSO). Chairman also declared that the committee has unanimously decided to start a certificate course in Rain Water Harvesting.

Meeting was thereafter concluded with thanks to the chair.

Sd/-

Er. Pramod B. Dalvi

Hon. Secretary

IWWA, Mumbai Centre

INDIAN WATER WORKS ASSOCIATION

MUMBAI CENTRE

Annual Report for the period from 1st April 2017 to 31st March 2018.

Dear Members,

The Managing Committee with great pleasure presents herewith **37th Annual Report** on working of Mumbai Centre along with Statement of Accounts for the period **1st April 2017 to 31st March 2018**.

1.0 Membership of Mumbai Centre as on 31.03.2018.

The category wise break-up of membership affiliated to Mumbai centre is as follows. :-

Sr.No.	Category	As on 31.03.2018	As on 31.03.2017	Increase (+) Decrease (-)
1	Life Fellow	148	147	+1
2	Life Members	1090	1073	+17
3	Associate Members	0	0	0
5	Student Members	73	42	+31
6	Life Organization Members	110	108	+2
	Total	1421	1370	+51

During period of review following new members were been enrolled in the family of Mumbai Centre.

S. N.	Membership No.	Name	Address
1	LF-0001258	Vaidya Sunil M.	G/101, Golden Square Chs Ltd, Sunder Nagar Extn., Kalina, Santacruz (E), Mumbai -400098
2	LM-9187	Patil Apurva Vilasat	Post Kodoli , Tal: Panhala Kolhapur - 4164114
3	LM-9192	Sawant Deepak Anant	16/125, Unnat Nagar III, M. G. Road, Goregaon (W), Mumbai - 400104
4	LM-9195	Sawdekar Sudhir Shamrao	M. G. Patil Bldg. Opp. Vakratunda Soc. Dombivali West, Shivaji Path No.2, Rajiv Nagar, Dombivali - 421202
5	LM- 9199	Zade Sandeep Krishnakant	B 101 Swarna CHS Bererly Park, Mira Road, Thane - 401107

S. N.	Membership No.	Name	Address
6	LM-9200	Suradkar Ravindra Dinkar	B 802 Bhoomi Harmony CHS, Plot No 82, Sector 18, Kamothe, Navi Mumbai - 410209.
7	LM-9201	Tandon Sharadl	802, Golden Square CHS, Off CST Road, Kalina, Santacruz (E), Mumbai - 400098
8	LM-9202	Bhagat Dinesh Govindc	18, Hari Niwas CHS ,near City Post Office Kot Naka, Uran, Navi Mumbai - 400702
9	LM-9203	Rajhans Amit Kumarc	701, Vidya Sankalp Goregaon (E), Mumbai - 400063
10	LM-9204	Khan Tauheed	NI-6-9-11 Sector 15, Shivam Apartment Navi Mumbai- 400706
11	LM- 9205	Denge Rajesh Vasantao	2E 102, Morya Garden Residency CHS, Vichumbe New Panvel- 410221
12	LM-9206	Colonel Tatwawadi Bhaskar	901, A Wing, Shiv Shivam Building Oshiwara, Jogeshwari (W), Mumbai- 400102
13	LM-9207	Chaudhari Amit Madhukar	Phalashruri CHS, 1st Floor, Flat No.2 , G.gupte Cross Road No.1,vishnu Nagar Dombivali (W), Dombivali- 421202
14	LM-9211	Palwe Ajay Shivaji	17/101, Ekta Building, Near Sai Ganesh Mandir, Sainagar, New Panvel - 410206
15	LM-9218	Rajurkar Kiran Tukaram	401, C Wing, Tulsi Tower, Haware Vrundavan, Sector 09, Khandwa Colony, New Panvel- 410206
16	LM-9219	Vikas Balasaheb Varekar	Datt Chaya, Plot No.14, Datt Colony Jaysingpur, Taluka : Shirol, Kolhapur- 416101
17	LM-9228	Bhopale Nitin Balvant	Plot No.38A/1, Jarag Nagar, Layout No. 1, Kolhapur-419007
18	LM-9240	Patil Smita Rahul	A-12/103, Siddharth Nagar, Borivali (E) Behind Carnival Cinema, Mumbai
19	SM-1924	Chikhalkar Rajesh Raosaheb	21/C/5, Datta Digambhar CHS, MHADA Colony, Mulund (E), Mumbai - 400081,
20	SM-1925	Jadhav Tanay Nilendra	B/302, Gauri Vinayak Park, Near Samrath School, Kalyan (E) - 421306

S. N.	Membership No.	Name	Address
21	SM-1926	Gothankar Gauri Narendra	1-A/2003, Devratna Nagar, Swadesh Mill Road, Chunabhatti, Mumbai 400022
22	SM-1927	Patil Harshal Nitin	Sector-12, 303 City Gem Building, Kharghar, Navi Mumbai 410210
23	SM-1928	Fulsundar Amruta Dilip	K79-15, Godrej Station Side Colony, Phiroj Shah Nagar, Vikhroli (E) Mumbai - 400079
24	SM-1929	Thakur Harshad Sitaram	A-89, Sector-4, Airoli, Navi Mumbai 400708
25	SM-1930	Firke Khemali Manohar	1/17, Jailaxmi, Pandit Dindayal Croos Road, Thakur Wadi, Dombivli (W) - 421202
26	SM-1931	Shinde Chetan Dattatray	Bldg. No.21, Room No.1093, Sardar Nagar, Sion koliwada, Mumbai - 400022
27	SM-1932	Gadhawe Pratiksha Nivruti	Omkareswar Society, Plot No.35/A, Room No.102, Kharghar , Sector-12, Navi Mumbai - 410210,
28	SM-1933	Soyal Tarun Jetharam	14, Sanjaa CHS., Near Shahakar Bazar, Station Road, Kalwa (W), Thane - 400605
29	SM-1934	Vanole Durgesh Mohan	A/80, Sainath Colony, Gajanan Nagar, Ulhasnagar - 421004
30	SM-1936	Patil Neha	B-107, Sai-Darshan, Nandivli Cross Road, Dombivli (E), 421201
31	SM-1937	Parkar Hemant Vipinchandra	1/B/15 N. M. M. Co-op. Housing Society, Near Mumbai Pune Road, Kalwa (W), Thane - 400605
32	SM-1938	Phadke Manesh Santosh	Home No.236 Panvel, At Post - Morbe, Raigad Maharashtra 410206
33	SM-1939	Patil Pritesh Mahesh	1, Nandadeep Building, Ram Wadi, Tilak Chowk, Kalyan - 421301
34	SM-1940	Kamble Gitesh Damodar	Sachin Niwas, R. No.9, Near Datta Mandir, Chikanghar, Kalyan (W) - 421301
35	SM-1941	Mhatre Vipul Haridas	B/506, Chandralok Arcade, Kalyan Shil Road, Mhatre Nagar, Dombivli (E), Pin - 421204

S. N.	Membership No.	Name	Address
36	SM-1942	More Rohan Sunil	A/10, Godavari Building, Ramabai Nagar, Ghatkopar (E), Mumbai - 400075
37	SM-1943	Pandey Nimesh Manoj	Building No.4, C-wing, Flat No.803, Subhash Nagar, Chembur, Mumbai -400071
38	SM-1944	Shinde Dhanashree Jalindar	A/2, Shivprasad Society, 2/13, Nerul Sector-18, Navi Mumbai - 400706
39	SM-1945	Tendulkar Shreyas Abhay	E-401, N. M. Joshi Annex, Gavanpada, Mulund (E), Mumbai -400081
40	SM-1946	Tanpure Chetan Rajendra	D-4, Plot No.144, Trimurti CHS, New MHADA Colony, Vasant Vihar, Thane (W) - 400610
41	SM-1947	Patil Bhavesh Bharat	701, Tirupati Heights, Aai Nagar, Kalwa (W), Thane - 400605
42	SM-1948	Potale Amit Uttamyash	Complex, A-202, Sector-8, Plot No.21, Kalamboli Navi Mumbai -410218
43	SM-1949	Raghvani Chirag Dilipbhai	1/B 225, Dosati Complex, Vartak Nagar, Thane (W) Thane - 400606
44	SM-1950	Dhirde Mayur Maruti	Mansi Nivas, Kamal Nagar, Shahapur, Thane -421601
45	SM-2122	Pakhare Prasanna Ramesh	L. I. C. Jeevan Vikas Colony, C-17, Link Road, Santacruz (W), Mumbai - 400054
46	SM-2123	Deshmukh Prarthana Anant	Ashtagandha CHS, D-30, 2/9, Seawoods, Sector-46, Navi Mumbai - 400706
47	SM-2124	Suryarao Akshada Deepak	Siddhivinayak CHS, Room No.404, Sector-21, Nerul (E), Navi Mumbai -400706
48	SM-2125	Gamre Akshay Arvind	B-701, Prasad Apartment, Janta Market, Near Cosmos School, Bhandup (W) Mumbai - 400078
49	SM-2141	Ujan Manisha Gajannan	5/D/3, Praijat CHS, RSC-17, Gorai(I), Borivali (W), Mumbai - 400091
50	LOM-0000984	A1- Aziz Palstics Pvt.ltd.	Factory 5-14, ACCHAD Industrial Estate, Acchad, Talasari, Palghar- 401606 Maharashtra Tel: 022 28593434, Email : plastics@alaziz.com
51	LOM-0000991	Solvierone Corporation	S 904, Lodha Supreme, Wagle Estate Road No22, Thane.

2.0 Managing Committee :-

During period of report, six (6) meetings of the Managing Committee were held. attendance members of the Managing Committee were as under.

S.N.	Post	Name of Member	Meeting Attended
1	Hon. Chairman	Er. Ramesh Bamble	6
2	Ex. Hon. Chairman	Dr. Hemant Landge	1
3	Hon. Vice Chairman	Er. K.B.Wadhavane	6
4	Hon. Secretary	Er. P.B.Dalvi	6
5	Hon. Jt. Secretary	Er. Anand Deodhar	3
6	Hon. Treasurer	Mr. Mohan matsye	6
7	Hon. Jt. Treasurer	Mr. V.A.Lokhande	6
8	Member	Er. Veerkumar Joshi	2
9	Member	Er. Nirav Saraiya	2
10	Member	Er. A.K.Jain	2
11	Member	Prof. Subhash Patil	0
12	Member	Er. Sachin Mudaganti	0
13	Member	Er. Vilas Deshamukh	0
14	H.Q. Nominee	Dr. Ulhas Naik	2
15	H.Q. Nominee	Er. G.N.Ganla	1
16	Co-opted Member	Er. A.S.Tawadia	1
17	Co-opted Member	Er. G.V.Patade	6
18	Co-opted Member	Er. Anil Gadge	6
19	Co-opted Member	Er. U.L.Naikodi	1
20	Co-opted Member	Er. A.P.Nirbhavane	2
21	Co-opted Member	Er. P.K.Charankar	1
22	Invitee	Er. P.M.Mahagaonkar	1

Sr.	Post	Name of Member	Meeting Attended
23	Invitee	Er. N.M.Tejaie	0
24	Invitee	Er. Ulhas Divekar	0
25	RWH Cell Head	Er. Ulhas Paranjpe	5
26	Water Mentor Youth Forum	Er. Hrishikesh Davalbhakta	0

3.0 Technical activities :-

3.1 Lectures

During the year four lectures were arranged as bellow.

Sr.	Date	Venue	Name of Faculty & Topic
1	26.05.2017	Empire Plaza II, Vikhroli, Mumbai	Er. K.B. Wadhavane “Water Treatment Plant – Owner's perspective – Issues and Mitigation”
2	01.12.2017	Hotel Satkar Residency Thane (W)	Er. K.B.Wadhavane “Energy Efficiency in Water and Wastewater Utility”
3	04.04.2018	Hotel Satkar Residency Thane (W)	Er. K.B. Wadhavane “Selection and Use of Water Treatment Chemicals - Challengers and Opportunities”
4	04.04.2018	Hotel Satkar Residency Thane (W)	Mr. Rajesh Doshi, CEO-Dombivali Better Environment Association Industrial Wastewater Treatment, Trends & Challenges”

3.2 National Seminar on “Innovative Water & Sewage Management Practices in Urban Environment”

Between 20 th and 21st January 2018, IWWA Mumbai Centre organized two days National Seminar on “Innovative Water & Sewage Management Practices in Urban Environment” hosted by IIT Bombay at VMCC, IIT, Powai, Mumbai, in association with, Maharashtra Jeevan Pradhikaran, (MJP), Municipal Corporation of Greater Mumbai, (MCGM) and Water & Sanitation Support Organization, (WSSO), Govt. of Maharashtra.

The seminar was well attended by more than 225 delegates from various organizations, all over india and representative of associating organisations. Chief Guest for the inaugural function was President IWWA, Dr. Rajesh Gupta. The inaugural function was anchored by Dr. Ulhas Naik, Organizing Secretary of the Seminar During inauguration session, Chairman IWWA Mumbai Center announced launching of their online course on “Rain Water Conservation and Management”.

On the 1st day of Seminar, 14 Speakers presented their papers in 3 Technical Sessions and On the 2nd day, 10 speakers presented their papers in 2 Technical Sessions. There were 3 commercial presentations, along with Technical Sessions, spread over the 2 days. All Technical Sessions were anchored by Er. G. V. Patade and Er. Sunil Vaidya.

1st day of the seminar

S.N.	Name of the speaker	Subject
	Technical Session I	Chairperson: Er. P.K. Charanrkar Ex. Dy. Municipal Commissioner (M. C. G. M.)
1	Dr. Prasad Modak	Key Consideration in Designing a Statewide Waste Water Reuse Policy
2	Dr. Eldho T.I. Head, Civil Engineer Department I. I. T. Bombay	Sustainable Water Management through Water Reuse and Recycling.
3	Philippe Charpentier	Helium Gas Leak Detection
4	Mr. Bharat of McRoly	Science of Butt Fusion results in leak-free joints in thermoplastic piping system.
	Technical Session II	Chairperson: Dr. Eldho T.I. Head Civil Engg. Deptt. I.I.T. Bombay
5	Mr. Gopan C.K.	Role of Water Utilities in Quality Assurance of Water Meters.
6	Er. Sandeep Mahajan (MCGM)	Mumbai City- GIS for Water Information Management & Decision Support System (WIMS)
7	Mr. Manoj Kumar & Mr. R. Patil of M/S. Jindal Saw Limited.	Restraining of Pipelines – Double Chamber Pipe Joints.

S.N.	Name of the speaker	Subject
8	Dr. Pawan Labhassetwar	Increase in Organic and Nutrient Contamination in Source Water and Retrofitting Requirements
	Technical Session III	Chairperson : Dr.Ulhas Naik of M/s. Jindal Saw Ltd.
9	Mrs. Chitralekha Vaidya of Varshakoot Consultant	Sustainability of Waste Water Treatment Plants.
10	Dr. M.A. Senoy	Polyurethane Coating for Water Storage and Transpiration Structures – an Innovative Practice.
11	Er. Ulhas Paranjpe of Jalvardhini Trust	Innovative use of Natural Fibers in Ferrocement Tank (Structures)
12	Mr. Rajinder Patil	Life Cycle Cost Analysis for Water Networks.
13	Mr. Rizavansing Mann of AMCHEM	Polyurethane Coating
14	Er. Suprabha Marathe Dy. Ch.Eng. of MCGM	Need for innovation in Sewage Treatment Technology, Areas of Modification

2nd day of the seminar.

	Technical Session IV	Chairperson : Er.Nirav Saraiya, RWH Consultant
15	Er. Pandurang More from VJTI, Mumbai	Multilayer Media for Wastewater Treatment from Waste and Natural materials. A review.
16	Er. Ajit Khandeshe	Sewage Treatment and Reuse using Membrane Bioreactor (MBR)

S.N.	Name of the speaker	Subject
17	Er. Swati Sirsant from VJTI, Mumbai	Multi-Objective Design of Water Distribution Networks using Resiliency as Reliability Surrogate.
18	Dr. Vikas Varekar	Rationalization of Krishna River Water Quality Monitoring locations.
	Technical Session V	Chairperson: Er. P.K. Chararnkar Ex. Dy. Municipal Commissiner (M. C. G. M.)
19	Er. Suparna Mukharji from IIT, Bombay	Simultaneous Nitrification and Denitrification for nitrogen Removal from Wastewater.
20	Er. Priyanka Patil from IIT, Bombay	Disinfection of Water using Photo Catalyst Titanium Dioxide.
21	Mr. Abhay Kantik from KRISIL	Governance and institutional challengers in developing a sustainable financing framework for Urban Water Supply Services.
22	Dr. C.J.Rao from MHADA	Optimal design of Balerma Pipe Network using FEM-PSO algorithm A Case Study.
23	Er. Sutar from IIT Bombay	Eco-Centric Treatment Technologies for Protection of Drinking Water Resources.
24	Prof. Anurag Garg from IIT Bombay	Sewage sludge solubilization and its volume reduction by hydrothermal pretreatment.

Panel Discussion & Valedictory Function was held under the chairmanship of Er. G. M. Parikar, Hon. Secretary General, IWWA

The seminar was concluded with vote of thanks proposed by Dr. Ulhas Naik.

3.3 **Celebration of World Water Day:**

On 04.04.2018, World Water Day, 2018 function was organised at Hotel Satkar Residency, Thane, It was well attended by around 150 + audience from Municipal Corporations, MJP, Industries, MIDC and Academic Institutes. The United Nation had selected “Nature of Water” as theme from the world water Day 2018. Inaugural speech was delivered by Dr. Hemant Landge, past President IWWA. Dr. Landge emphasized on importance of water for ecosystem and its impact on nature.

The World Water Day program was organised in collaboration with Grasim Industries (Chemical division). On the occasion, Mr. Shailendra Deshpande, Senior Vice President and CMO, of Grasim industries extended welcome to all guests and shared his view on water scarcity and its mitigation. There were three technical presentations by experts.

- 3.3.1 Selection and Use of Water Treatment Chemicals- Challenges and Opportunities by Er. K.B. Wadhavane, Director Technical, IWWA Various Sub themes covered during presentation were use, Application and pros & cons of disinfectants (Chlorine, Chlorine dioxide, Ca & Na Hypochlorite, Ozone, UV etc.), Inorganic coagulant - Poly Aluminium Chloride (PAC) for water clarification, Organic flocculent (poly electrolyte) for sludge dewatering and carbonation as pH booster. Er. K.B. Wadhavane highlighted use of inorganic polymeric coagulant i.e. PAC for Treatment of water throughout India and its new BIS specification (IS 15573: 2018) where norms for Selenium and Total Organic Carbon (TOC) have been implemented. Norms for TOC have been included to avoid inferior quality of PAC. He mentioned advantages for using PAC, like no choking of dosing lines, less requirement for cleaning of tanks, low sludge handling, low doses requirement/ less treatment cost, suitability for wide range of pH (6.5 to 9.5), covers low to high turbidity range, dense and fast settling flocs etc. He also shared few case studies for water treatment from USA & Canada with special reference to use of Water Treatment Chemicals.
- 3.3.2 Nirmal Jal, Contribution by Dr. Sanjeev Gupta, Head R & D, Grasim Industries Limited Dr. Gupta shared overview of water utilization status and future trend at different sectors viz. irrigation, domestic and industrial, and use of different technologies for treatment of wastewater generated. He mentioned that biological process are the cheapest option for removal of organic and microbial Contamination from wastewater. Performance of biological process can be augmented or improved using chemicals to meet the discharge norms or to reutilize the treated wastewater. He shared different case studies for treatment of raw water, sewage and wastewater from industries viz. pulp & paper, Resin/ refinery, dyes, textile etc. using hybrid chemicals of VYTAL series. He mentioned that treatment chemicals can be customized based on the requirement of treatment process while bearing in mind techno-economical factor.
- 3.3.3 Industrial Wastewater Treatment, Trends & Challenges by Mr. Rajesh Doshi, CEO- Dombivali Better Environment Association Mr. Doshi discussed overview of Water Sources and trend in sustainable water treatment solutions. He discussed various advancement in physical (clarification, membrane filtration etc.), chemical (coagulation-flocculation, oxidation, hybrid treatment etc.) and biological treatment of water and wastewater while mentioning advantages and disadvantages of each

process. He also discussed about future concepts for water treatment considering decentralised treatment and reutilization of treated water for different uses.

The program was concluded with vote of thanks proposed by Er.P.B.Dalvi Hon. Secretary, IWWA Mumbai Center.

3.4 Participation in Municipalika Conference

14th International Conference and Exhibition on “Smart and Sustainable City Solutions” was organized at Navi Mumbai between 18th and 20th May 2017 by the Good Governance India Foundation.

On 20.05.2017 - Hon. Director Technical, Er. K.B. Wadhavane presented paper on Sludge Recovery and Recycling of Wastewater from WTPs, as a collaborative activity between IWWA and MUNICIPALIKA 2017. The paper was presented in conference session under theme, Healthy Cities Integrated Water Management.

- 3.5** On 26.05.17, Mumbai Chapter, Institution of Civil Engineers (ICE), UK, and IWWA, organized a lecture under programme Genesis – ICE Mumbai, Evening Lecture Series 2017. The lecture was delivered by Er. K B Wadhavane Hon. Vice Chairman IWWA, Mumbai Centre, on subject “Water Treatment Plant – Owner's Perspective – Issues and Mitigation”.

The event was arranged in collaboration with M/s. Black & Veatch in their office at Empire Plaza II, Vikhroli, Mumbai. Various sub themes covered during presentation were Algal Blooms & Color Issues, Settler Improvement by use of pulsatube & DAF Technology, Optimizing PAC Dosing, Control of Chlorine Hazard & THMs, Filter Automation, use of UV Reactor after filters, Challenges & Solutions in recycling of Filter Backwash, Selection of Polyelectrolyte for Sludge Recovery, Mitigation of Cavitation, Pump Coating, Increasing Motor Efficiency, Improvement of p.f. by APFC panel, Solar Power Project for Energy Efficiency in WTPs.

Lecture was followed by Question & Answer session and interaction with Participants.

3.6 Rain Water Harvesting Cell Mumbai Centre conducted following activities.

IWWA-Mumbai Centre in association with Jalvardhini Pratishthan conducted following activities between 1st April 2017 and 31st March 2018

- a) Two days Workshop on " Water Conservation with Ferro Cement Technology ' at Oak Vanaushdhi Prkalpa in Karjat Dist. Raigad--Student Participated in actual construction of Ferro cement Tank at Karjat
- b) Lecture at Rajendra Mane Polytechnic--Ambav-Devrukh, Dist Ratnagiri, on “Water Conservation in urban and Rural area with Case Studies " for the 2nd year and 3rd year
- c) Presentation on " Rain Water Harvesting Methods with Specific Reference to Maharashtra "at the Plumbing Conference organised by Plumbing Association --Nashik

- d) On 15/03/2018 A Lecture to IV the Semester Diploma Students in Civil & Environment Engg. Department at VJTI Matunga was arranged on " RWH in Urban area with case studies"

4.0 Achievements :-

- a) Er. K. B.Wadhavane, Vice Chairman of Mumbai Centre and Hon. Director Technical IWWA was honored with prize for best lecture delivered at Mumbai Center during the 50th Annual Convention at Goa.
- b) Er.Ulhas Pranjpe, Trustee Jalvardhini Pratishtan and head of RWH cell of Mumbai Center was awarded with Linga Raja Das Memorial Trophy during the 50th Annual Convention at Goa.
- c) During reporting year following dignitaries from Mumbai Centre were elected on the Council of Management of IWWA.

Sr. No.	Name	Designation
1.	Er. G. V. Patade	Co-opted Member
2.	Er.G.N.Ganla	Co-opted Member

5.0 Miscellaneous:-

5.1 Annual General Meeting:-

36th Annual General Meeting of the Mumbai Centre was held on **22nd September, 2017** and was well attended by the members.

5.2 GSTN

In view of National Seminar that was being organized by Mumbai Center, it was imperative to take the GSTIN for the Mumbai Center. So with the joint efforts of Mr.A.K.Jain, Er. Ullhas Paranjpe, Mr. Mohan Matsye and Professional Assistance of M/s. Amar Bafna & Associates Andheri, a separate GSTIN: 27AAAAI0061J2ZX was taken for IWWA Mumbai Center. Same was used for the Seminar activities and necessary Tax returns were filed regularly clearing all liabilities from time to time.

5.3 Felicitation :-

On 01.02.2018, Dr. Hemant Landge, Past President of IWWA was felicitated by IWWA Mumbai Center at Hotel Satkar Residency, Thane. Dr. Hemant Landge had retired as the Technical Director from Maharashtra Jeevan Pradhikaran (MJP). His contribution for IWWA is unaccountable.

Er. Ramesh Bamble, Dy. Municipal Commissioner MCGM, extended welcome to the audience and Er. K. B. Wadhavane, Hon. Vice Chairman, Mumbai Centre, and Hon. Director (Technical) IWWA, delivered a lecture on “Energy Efficiency in Water and Wastewater Utility”. The program was concluded with vote of thanks by Er. P. B. Dalvi Hon. Secretary, IWWA Mumbai Centre

5.4 In the meeting held on 16.02.2018. During the reporting year Er.Ulhas Divekar has been appointed as the Election Officer, to hold the election for six (6) members for the block period of 2018-20

6 Appeal from Mumbai Centre

- a) **Mumbai Centre is organizing one/two days workshop/training on Rain water harvesting, water conservation by using Ferro cement technology, use of natural fibers in association with Jalvardhini Trust, Mumbai. Interested organization may contact Mumbai Centre / Mr. Ulhas Paranjpe Head of RWH Cell of Mumbai Centre on 9820788061.**
- b) **In the Managing Committee Meeting held on 17.02.2016, it ware resolved to donate 10% stock of Technical Books published by the IWWA, Mumbai Centre to Educational Institute free of cost. Interested institution may contact Mumbai Centre for the same. It was further resolved to sell all books at 50% discount.**

7 Acknowledgement:-

- a. President & Council of Management of IWWA.
- b. Municipal Corporation of Greater Mumbai. (MCGM)
- c. Maharashtra Jeevan Pradhikaran. (MJP)
- d. All India Local Self Government. (AIIILSG)
- e. Administrative staff of Head Quarter.
- f. All members of IWWA, Sponsors & Donors.

INDIAN WATER WORKS ASSOCIATION

MUMBAI CENTRE

STOCKS OF BOOK AND VALUATION

Stock of Technical Books in Hand as on 31.3.2018

Sr. No.	Name of Book	Stock as on 31.03.2017	Stock as on 31.03.2018	Sold books	Original Price in Rs.	Reduced Price in Rs.	Value in Rs.
1	Rain Water Harvesting	716	716	0	100	50	35,800
2	Drinking Water Quality	1537	1537	0	100	50	76,850
3	Guidelines for Reuse of City Effluents in Agriculture	824	824	0	1,000	500	4,12,000
4	Achieving 24x7 Continuous Water Supply	138	138	0	900	450	62,100
5	Proceedings of the seminar on PUMPS, VALVES & Accessories	40	40	0	200	100	4,000

Sr. No.	Name of Book	Stock as on 31.03.2017	Stock as on 31.03.2018	Sold books	Original Price in Rs.	Reduced Price in Rs.	Value in Rs.
6	An Environment to be proud of	874	874	0	750	375	3,27,750
7	Improving Service Delivery in Water Supply	82	82	0	450	225	18,450
8	National Seminar on Rain Water Harvesting	352	352	0	200	100	35,200
Total Amount							9,72,150

This is to certify that the technical books as detailed in the table given below are in stock with IWWA. Mumbai Centre as on 31.3.2018

Sd/-

Hon. Treasurer
IWWA, Mumbai Centre

Sd/-

Hon. Secretary
IWWA, Mumbai Centre

Sd/-

Hon. Chairman
IWWA, Mumbai Centre

FIXED DEPOSITS IN HAND YEAR 2017-18

Sr. No.	Name of the Bank	Amount in Rs.	Rate of Interest in %	Period Years	Date of Issue	Date of Maturity
1	Central Bank of India, Vakola (E) FD No. 233588	4,70,858	7.60	2	09.06.2016	09.06.2018
2	HDFC Ltd., Gokhale Road Thane (W) FD No. 1518968	1,50,000	9.30	3	16.08.2014	16.08.2017
3	HDFC Ltd., Gokhale Road Thane (W) FD No. 1518762	1,50,000	9.30	3	16.08.2014	16.08.2017
4	HDFC Ltd., Gokhale Road Thane (W) FD No. 1518975	1,50,000	9.30	3	26.12.2014	26.12.2017
5	HDFC Ltd., Gokhale Road Thane (W) FD No. 1518951	2,00,000	8.60	3	05.08.2015	05.08.2018
6	HDFC Ltd., Gokhale Road Thane (W) FD No. 1518944	2,00,000	8.60	3	05.08.2015	05.08.2018
7	IDBI Bank, Vileparle, Mumbai, FD No. 7593174	1,00,000	9.00	2	23.07.2014	23.07.2016
8	IDBI Bank, Vileparle, Mumbai, FD No. 5418237	1,50,000	8.60	3	25.02.2015	25.02.2018
9	IDBI Bank, Mulund (W) FD No. 7353323	2,00,000	8.50	3	28.03.2015	28.03.2018
10	IDBI Bank, Vileparle, Mumbai, FD No. 5418632	1,50,000	8.50	3	29.03.2015	29.03.2018
11	IDBI Bank, Mulund (W) FD No. 7353384	3,00,000	8.50	3	01.04.2015	01.04.2018
12	IDBI Bank, Vileparle, Mumbai, FD No. 6968924	1,25,000	8.40	3	31.05.2015	31.05.2018
13	IDBI Bank, Mulund (W) FD No. 4413578	7,00,000	9.00	5	10.09.2013	10.09.2018
14	IDBI Bank, Vileparle, Mumbai, FD No. 80480366	1,50,000	7.50	3	20.01.2016	20.01.2019
	Total	31,95,858				

Sd/-
Hon. Treasurer
IWWA, Mumbai Centre

Sd/-
Hon. Secretary
IWWA, Mumbai Centre

Sd/-
Hon. Chairman
IWWA, Mumbai Centre

MANOJ S. KARLEKAR

CHARTERED ACCOUNTANT

3, Yashada Sadan, 1st Floor, L. T. Road, Mulund (E), Mumbai - 400081.
Phone No. : 21637213, 21639574

Auditor's Report

I have audited the attached Balance Sheet of Indian Water Works Association, Mumbai Centre as at 31st March, 2018 and also the Income and Expenditure Account and Receipts and Payments Account for the year ended on that date annexed thereto. These financial statements are the responsibility of the Association. My responsibility is to express an opinion on these financial statements based on my audit.

I conducted my audit in accordance with auditing standards generally accepted in India. Those standards require that I plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statements presentation. I believe that my audit provides a reasonable basis for my opinion.

The balance of fixed deposit with banks and stock of technical books is hand as on 31st March 2018 are subject confirmation

Subject to above, I report that:

1. I have obtained all the information and explanations, which to the best of my knowledge and belief, were necessary for the purposes of my audit.
2. In my opinion, proper books of accounts, as required, have been kept by the Association, so far as appears from my examination of those books.
3. The Balance Sheet and Income and Expenditure Account and Receipt and Payment Account dealt with by this report are in agreement with the books of account.
4. In my opinion and to the best of my information and according to the explanations given to me, the said accounts give a true and fair view in conformity with the accounting principles generally accepted in India :
 - a) in the case of Balance Sheet, of the state of affairs of the Indian Water Works Association Mumbai Centre as at 31st March, 2018 and
 - b) in the case of the Income and Expenditure Account, of the **Surplus** for the year ended on that date.



sd/-
CA. Manoj S. Karlekar
M. No. 43454

Date : 02.07.2018

**INDIAN WATER WORKS ASSOCIATION MUMBAI CENTRE
RECEIPTS AND PAYMENT ACCOUNT FOR THE YEAR ENDED 31 ST MARCH 2018**

2016-17	RECEIPTS		2017-18		2016-17	PAYMENTS	2017-18	
	AMOUNT	AMOUNT	AMOUNT	AMOUNT			AMOUNT	AMOUNT
53,02,758.10	Total b/d	47,71,337.10	Total b/d	47,71,337.10			7,82,249.10	00.00
-	Annual Day	-		-		Security	-	
-	Incentive from HQ	9,727.00		-		Municipal Tax paid	-	
8,763.00	Misc. Income			-		Property Tax paid	-	
				-		License fees paid	-	
				-		Luxury Tax paid	-	
				-		Membership Expenses	-	
				-		Project Expenses	-	7,68,249.10
				-		CAPITAL PAYMENTS		
				-		Fixed Deposits	-	
				-		Investment made in	-	
				3,500.00		Refund of Advances to Arun Nirbhavane	50,600.00	
				-		Deposits given	-	
				-		Purchase of Asset	-	
				-		Loan to S D Palekar	25,000.00	
				-		GST Paid	17,500.00	93,100.00
						Closing Balance		
				6,363.86		Cash in hand	16,233.86	
				2,57,991.22		Bank Balance with IDBI Bank a/c. 800031	3,67,298.62	
				2,97,185.02		Bank Balance with IDBI Bank a/c. 8770	33,09,976.52	
				37,853.00		Bank Balance with JKSBIL a/c. SB/4854	39,491.00	
				1,24,043.20		Bank Balance with Central Bank of India a/c.1015580204	1,30,768.20	
				1,340.00		Bank balance with IDBI Bank a/c no.45438	1,390.00	
				29,99,221.80		Bank Balance with IDBI A/C No. 0117104000177337	54,556.80	39,19,715.00
53,11,521.10	TOTAL	47,81,064.10	TOTAL	53,11,521.10		TOTAL		47,81,064.10

As per my report of even date.

C.A. MANOJ S. KARLEKAR
NO.43454

Date : 02/07/2018
Place: Mumbai

Sd/-
Hon. Treasurer
IWWA, Mumbai Centre

Sd/-
Hon. Secretary
IWWA, Mumbai Centre

Sd/-
Hon. Chairman
IWWA, Mumbai Centre

FOR INDIAN WATER WORKS ASSOCIATION, MUMBAI CENTRE

INDIAN WATER WORKS ASSOCIATION MUMBAI CENTRE
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 2018

2016-17 AMOUNT	EXPENDITURE		2017-18		INCOME		2017-18	
	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
		EXPENDITURE IN RESPECT OF PROPERTY						
-	-	Repairs & Maintenance	-	-	-	Fixed Deposits with Companies	-	-
-	-	Property Tax	-	-	2,26,800.00	Fixed Deposits with Banks	1,52,053.50	-
-	-	Depreciation on Bldg	-	-	1,58,125.00	Saving Account with Bank	1,49,281.00	-
		ESTABLISHMENT EXPENSES			-	Other Interest	-	3,01,334.50
22,000.00	-	Salary,Wages, Bonus	-	-		MEMBERSHIP FEES		
17,554.00	2,410.00	Postage & Telephone	2,410.00	-		Annual Subscription	-	-
930.00	-	Stationery & Printing	-	-		Journal Subscription	-	-
-	-	Typing & Xerox	-	-				
2,076.00	-	Travelling Expenses	-	-		CONTRIBUTION		
-	-	Conveyance Charges	-	-		Annual Convention Sponsorship	-	-
-	-	Printing of news bulletin	-	-		Towards Technical Tour	-	-
-	-	Account Writing Charges	-	-				
17,907.00	-	Web Designing for Convention	-	-	20,950.00			
-	-	Refreshment/Staff Welfare	-	-		INCENTIVE		
-	-	Entertainment Expenses	-	-		Members enrolment Incentiv	-	-
-	-	Water Charges	-	-		Incentive From Head Office	-	-
-	-	Meeting Expenses	-	-	12,000.00	Incentive on Life Membership	-	-
12,000.00	5,900.00	Audit Fees	5,900.00	-				
-	-	Consultancy	-	-		HEAD QUARTER GRANT		
-	-	Insurance Charges	-	-	20,310.00	SALE OF TECHNICAL DATA BOOKS		
		MISCELLANEOUS EXPENSES						
-	-	Sundry Expenses	-	-		RECEIPT FROM SEMINARS		
-	53.10	Bank Commission & Charges	53.10	-	25,000.00	48TH Annual Convention Receipts	-	-
-	-	Misc. Charges etc.	-	-		National Seminar 2018	7,47,500.00	-
		EXPENSES ON OBJECT OF ASSOCIATION				ADVERTISEMNT & DONATION		
2,000.00	6,000.00	Lecture Meeting	6,000.00	-		Advertisement	-	7,50,100.00
37,769.00	-	Technical Tour Expenses	-	-		Donation	2,600.00	-
21,670.00	6,39,342.00	National Seminar 2018	6,39,342.00	-				
-	-	Conference Expenses	-	-		INCOME FROM OTHER SOURCES		
-	-	Journal Printing	-	-		Old Balances Written Back	-	-
-	-	Journal Postage	-	-		Misc. Income	-	-
-	-	News letter Postage	-	-	8,763.00			
36,680.00	-	Refund of Grant of RWH to IWWA Partners	-	-		EXCESS OF EXPENDITURE OVER INCOME		
-	-	Awards & Prize	-	-				
55,820.00	-	Rain Water Harvesting Expenses	-	-	11,07,568.00			
-	-	Share of Profit to HQ	-	-				
12,00,000.00	-	Donation to HQ for Building fund out of Convention	-	-				
1,33,955.00	1,28,826.00	Annual General Meeting	1,28,826.00	-				
17,842.00	5,202.00	Managing Committee Meeting	5,202.00	-				
-	-	48th Annual Convention Payments	-	-				
320.00	-	Honorarium	-	-	7,79,370.00			
		DEPRECIATION						
-	250.00	Furniture & Fixtures	250.00	-				
279.00	-	Equipments	-	-				
-	-	Computers	-	-				
6.00	5.00	Office Equipments	5.00	-				
		EXCESS OF INCOME OVER EXPENDITURE			10,51,434.50	TOTAL		
15,78,808.00		TOTAL	10,51,434.50		15,57,908.00	TOTAL		10,51,434.50

As per my report of even date.

C.A. MANOJ S. KARLEKAR
NO.43454
Date : 02/07/2018
Place: Mumbai

Sd/-
Hon. Treasurer
IWWA, Mumbai Centre

Sd/-
Hon. Secretary
IWWA, Mumbai Centre

Sd/-
Hon. Chairman
IWWA, Mumbai Centre

FOR INDIAN WATER WORKS ASSOCIATION, MUMBAI CENTRE

INDIAN WATER WORKS ASSOCIATION MUMBAI CENTRE BALANCE SHEET AS AT 31ST MARCH 2018

As at 31.03.2017	As at 31.03.2018		As at 31.03.2017	PROPERTIES & ASSETS	As at 31.03.2018	
	FUNDS & LIABILITIES	AMOUNT (Rs.)			AMOUNT (Rs.)	AMOUNT
	EARMARKED FUND			IMMOVABLE PROPERTIES		
-	Opening Balance	-	-	LAND	-	-
-	Add: Additional during the year	-	-	BUILDING	-	-
	BUILDING FUND			Opening written down value	-	-
3,21,150.00	Opening Balance	3,21,150.00	-	Less: Depreciation	-	-
-	Add: Additional during the year	3,21,150.00		OTHER ASSETS		
-	LOANS & ADVANCES			(As per Attached Schedule - III)		
-	DEPOSITS		2,842.00	Gross Value	2,557.00	2302.00
	CURRENT LIABILITIES		2,85.00	Less : Depreciation	2,55.00	
29,500.00	Liability for exp	41,500.00	2,557.00	INVESTMENT		
	(As per Attached Schedule - I)			DEPOSITS & ADVANCES		
50,600.00	Other liability payable	1,984.00	36,07,250.80	(As per Attached Schedule - IV)		36,26,619.30
	(As per Attached Schedule - II)			CASH BALANCE		
	INCOME & EXPENDITURE			Cash on hand with	6,363.86	16233.86
90,12,273.90	Opening Balance	79,04,705.90		BANK BALANCE		
(11,07,568.00)	Add : Surplus during	2,51,446.40	43,484.00	(As per Attached Schedule - V)		
	Total	85,20,786.30	83,05,955.90	Stock of Technical Books in Hand	9,72,150.00	39,03,481.14
				Total		85,20,786.30

As per my report of even date.

C.A. MANOJ S. KARLEKAR
NO.43454

Date : 02/07/2018
Place: Mumbai

Sd/-
Hon. Treasurer
IWWA, Mumbai Centre

Sd/-
Hon. Secretary
IWWA, Mumbai Centre

Sd/-
Hon. Chairman
IWWA, Mumbai Centre

FOR INDIAN WATER WORKS ASSOCIATION, MUMBAI CENTRE

The above Balance Sheet, to the best of my/our belief, contains true account of the Funds and Liabilities and of the Property and Assets of the Trust.

INDIAN WATER WORKS ASSOCIATION MUMBAI CENTRE

ANNEXURE TO BALANCE SHEET AS AT 31ST MARCH 2018

ANNEXURE - I		LIABILITY FOR EXPENSES	
As at 31/03/2017	DESCRIPTION	As at 31/03/2018	AMOUNT
-	Professional Fees Payable	-	
29,500.00	Audit Fees payable	41,500.00	
29,500.00	Total	41,500.00	

ANNEXURE - II		OTHER LIABILITY PAYABLE	
As at 31/03/2017	DESCRIPTION	As at 31/03/2018	AMOUNT
50,600.00	Advances from Treasurer Arun Nirbhavane	-	
-	TDS Payable	1,984.00	
50,600.00	Total	1,984.00	

ANNEXURE - III		OTHER ASSETS	
As at 31/03/2017	DESCRIPTION	As at 31/03/2018	AMOUNT
427.00	FURNITURE As per last Balance Sheet	384.00	
43.00	Less: Depreciation	38.00	346.00
2,356.00	NEW FURNITURE As per last Balance Sheet	2,120.00	
236.00	Less: Depreciation	212.00	1,908.00
59.00	OFFICE EQUIPMENT As per last Balance Sheet	53.00	
6.00	Less: Depreciation	5.00	48.00
2,557.00	Total		2,302.00

ANNEXURE - IV		DEPOSITS AND ADVANCES	
As at 31/03/2017	DESCRIPTION	As at 31/03/2018	AMOUNT
31,95,858.00	Fixed Deposits	31,95,858.00	
1,25,000.00	Head Quarter Building Fund	1,25,000.00	
1,95,161.80	TDS Recoverable	2,12,857.30	
67,904.00	IDBI FD Interest Receivable	67,904.00	
13,600.00	Grant Receivable -HQ	-	
9,727.00	Incentives Receivable -HQ	-	
-	Loan to S D Palekar	25,000.00	
36,07,250.80	Total	36,26,619.30	

ANNEXURE - V		BANK BALANCE	
As at 31/03/2017	DESCRIPTION	As at 31/03/2018	AMOUNT
2,57,991.22	Savings Account with IDBI Bank a/c. no. 800031	3,67,298.62	
2,97,185.02	IDBI Bank a/c. no. 8770	33,09,976.52	
37,853.00	Jankalyan Sahakari Bank a/c. no. 4854	39,491.00	
1,24,043.20	Central Bank of India a/c. no. 1015580204	1,30,768.20	
1,340.00	New India Co-op Bank a/c. no. 750	-	
-	New India Co-op Bank a/c. no. 458	-	
-	IDBI A/C no.45438	1,390.00	
-	IDBI A/C no. 127875/7829809	-	
29,99,221.80	Bank Balance with IDBI A/C No. 0117104000177337	54,556.80	
37,17,634.24	Total	39,03,481.14	