Workshop on
Challenges due to Change in Land use & Rain Fall Pattern for Storm water Collection Treatment & Disposal.

9th October 2015

Organized by

The Institution of Engineers (India)
Maharashtra State Centre

In association with

Urban Development Department

Govt. of Maharashtra

The Institution of Engineers India

The Institution of Engineers (India) is the pioneer body to introduce, starting from 1928, non-formal engineering education program, successful completion of which is recognized as equivalent to a degree in engineering by the Government of India, the Union Public Service Commission, the State Governments and many Public / Private Sector organizations in the country. The Institution of Engineers (India), with its headquarters in Kolkata, India, is administered by a National Council with the President as its Head, and operates through 105 State and Local Centres, located at capital cities and towns of industrial and academic importance all over the country, and five Overseas Chapters. The Secretary and Director General is the Chief Executive of the Institution

Maharashtra State Centre

The Maharashtra State Centre, of the Institution was founded in September1921 (as Bombay Association) just a few months after the formal inauguration of the Institution on 23rd February 1921. In 1943, the Bombay Engineering Congress was amalgamated with the then Bombay Centre. In 1976 with the realignment of the Institutions Centres on the basis of the state boundaries, jurisdiction of Bombay Centre was extended to encompass the whole of Maharashtra State. The Centre's name was changed from Bombay Centre to Maharashtra State Centre. Currently, Maharashtra State has 10 Local Centres viz. Ahmednagar, Amravati, Aurangabad, Belapur, Chandrapur, Kolhapur, Nagpur, Nashik, Pune and Solapur.

The centre has been very active in promoting and diffusing the knowledge, information and technology for engineering application through programmes like Lectures, Seminars, Symposia, Conferences, Workshops, Training Courses, Technical Journal and Paper Meetings, Site Visits, Film shows, Presentations, Competitions and Exhibitions etc. & particularly on new emerging trends/practices in engineering.

About Theme

Urban storm water is mainly rainfall that runs off roofs, roads, footpaths and car parks. Rainfall run-off also occurs from gardens, parks and other open space areas in larger storms. Storm water has been traditionally collected by storm water drains and transported through pipes and channels to creeks, rivers, the harbor and ocean. There are three principal ways to dispose of rainwater from roofs,

courtyards and paved areas: storm water sewers, soak ways and collection in storage tanks. Storm water sewers, which may in some cases consist of open channels, are more common in urban or densely built-up areas, and they normally serve to take the drainage from highways as well as from buildings. In the earlier days people used to design a combined sewerage system or a combined sewer is a sewer which carries storm water as well as sanitary wastewater.

The urbanization is taking place at the fastest rate so the land use pattern is geting changed. Natural drainage system is altered due changed land used. The natural drainage is also being used as dumping site during non-rainy days. Rain water gushes directly because natural obstructions and percolation are drastically reduced in urbanized area. Despite of the best efforts by the local authority chaos takes place in the beginning of rainy season. Flood like situation in Mumbai is becoming a common phenomenon. The statistic shows that the rain fall pattern is not changed much. However it is definite that the rain fall may remain same but the duration of rain fall is becoming shorter. The excess rain fall is always become excuse for failure of storm water drainage system. Concrete road in Pune has definitely provided the better road however invited the problems. Earlier the road is to serve as drainage for storm water from society. Now with concrete road the situation is different because level of concrete road is above the ground level of society. Most of natural drainages are altered, vanished or encroached. The change land use pattern has increased the run off rate. This together is leading to catastrophic condition.

Urbanize population has gone up from 11% in 1950 to 33% in 2014. It will likely to go up. There is urgent need to think about Storm water management as a part of Town planning and development. This is also the critical parameter to make the city Smart.

There are 26 Municipal Corporation in Maharashtra & 433 municipalities in Maharashtra. Workshop on Challenges due to Change in Land use & Rain Fall Pattern for Storm water Collection Treatment & Disposal is for Sustainable Urban Development to all Municipal Corporations & Municipalities of Maharashtra. Workshop will discuss all the important aspects of Storm water management. The Workshop is aim to show the approach to the delegate & provide the tools to deal the problem. The delegates will definitely get equipped with the followings aspects of Storm Water Management.

1. Understanding the need of Storm water management
2. Approach & Guidelines to deal the problem with specific site conditions
3. Realizing the impact of change in land use pattern due to urban sprawl.
4. Assessment of pollution due to Storm water & its Treatment
5. Concept of sustainable urban drainage systems.
6. Interpretation of Rain fall data for Storm water design
7. Integration of Storm water for Wetland development
8. Integration of Storm water & rain water harvesting
9. SOP for Operation & maintenance of Storm water drainage
10. Public involvement & participation

Subthemes

The Seminar is calling for papers focusing on the following areas

1. Impact on storm water Quality & Quantity of hydrogeological conditions, topography & Change in Land use pattern.
2. Identification, Protection & preservation of Natural Drainage for Storm water
3. Change in Rain fall pattern – Myth or reality and its impact. may
4. Design aspects of storm water collection & drainage to face new challenges
5. Strom water quality its impact & mitigation measures
6. Strom water treatment & its utilization.
7. Reduction in Storm water peak & Total flow by sustainable landscaping.
8. Operation & Maintenance of Strom water drainage system in rainy and non-rainy days.
9. Use of rain & storm water as resource.
10. Strom water disposal from Low lying area an Engineering Challenge
11. Sustainable urban drainage systems or low impact development or green infrastructure practices into municipal plans
12. Success stories of Strom Water Management
13. Disaster Control plan for Strom Water Management.

The eminent personalities will be invited to deliver the invited lecture. They will be from Academics, Government Authority & Design & material suppliers. Secretary of Department of Urban Development & Department of Environment will be requested to deliver the key note address. Resource persons will highlight the impact & mitigation. The delegates will interact

with resource persons at end of the session. There will be Group discussion on various issues of Storm water drainage. The delegates will discuss the issues pertinent to their site conditions. Efforts will be made to resolve the issue in the discussion. This will enable organizer to understand the needs & requirements. It will be compiled along with recommendations and the action plan for further follow up.

Registration

All the delegates must register in advance for participation in this seminar. Duly filled in registration form along with registration shall be sent to The Institution of Engineers (I), Maharashtra State Centre, Mumbai. **Registration Form attached separately.**

Fee (before September 25, 2015)
Members of IEI: Rs. 800/-
For Non Members / Others Rs. 1000/-
Students – Rs.500/-

Extra Service Tax 14%

Spot Registration
Members of IEI : Rs. 1000/-
For Non Members / Others Rs. 1200/-
Students – Rs. 750

Extra Service Tax 14%

(Registration Fees includes tea, coffee, and lunch during the workshop.)

Programme :

09,00 a.m. to 10.00 a.m. - Registration
10.00 a.m. - Inauguration
10.45 a.m.11.00 a.m. – High Tea
11.00 a.m. -Technical Session 1 (Change in Land Use & Rainfall pattern Impact & Mitigation.
11.45 a.m. - Technical Session 2 (Design to face new Challenges)
12.45 p.m. - Technical Session 3 (Storm water Quality Impact & Treatment)
1.30 p.m. - Lunch
2.15 p.m. - Technical Session 4 (Reduction and Green Infrastructure)
3.15 p.m. - Technical Session 5 (Disaster Control Plan & Capacity Building)
4.00 p.m. to 4.15 p.m. – Tea Break
4.15 p.m. - Technical Session 6 (Success Stories)
5.15 p.m. - Group Discussion & Presentation
6.15 p.m. - Valedictory Function

Organizing Committee

Mr. Satish G Bahaley, FIE Chairman, IEI, MSC
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