



M.S.Yatnatti : Editor and Video Journalist: "Blunt and Sharp Daily News Portal": Swarnamba .R.L Freelance Video Journalist and Reporter

### PREPARE DETAILED ESTIMATES THEN MAKE A CORRECT PROPOSAL TO TAKE UP WORK ON REMODELLING STORMWATER DRAINS (SWDS) "TO DRAIN OUT RAIN WATER"



By : M.S.Yatnatti Editor and Video Journalist Bengaluru : Let The Bruhat Bengaluru Mahanagara Palike's (BBMP) prepare detailed estimates and then make a correct proposal to take up work on remodelling stormwater drains (SWDs) instead of discussing line estimate Rs 10 crore per km of drain, or Rs 6-7 crore a km .As re-modeling storm water drains (SWDs) is of prime importance . Bengaluru's SWD network adds up to 842km and, with the city witnessing floods during rain because of overflowing drains, the BBMP had proposed immediate remodelling of around 150km of the network. A proposal to the tune of Rs 1,411 crore was prepared and a request was made to the state government for financial clearance. But the proposal came under the scanner when it came up for discussion during the fifth inter-department review meeting chaired by Bhaskar chief secretary and Mahendra Jain, additional chief secretary (urban development).

Reportedly BBMP chief engineer, stormwater drains, reportedly said: "We're prepared for rain. We won't have a situation like earlier." The SWD network is 842km long, of which BBMP has remodelled 390 kilometres in co-operation with Bangalore Water Supply and Sewerage Board. The BBMP has requested the state government to allocate Rs 3,000 crore for maintenance, rebuilding and desilting of drains. The Bruhat Bengaluru Mahanagara Palike (BBMP) said the number of spots vulnerable to flooding in the city have been reduced to 26 from 362 identified initially, making it better prepared to handle rain crises. The number of such spots has been coming down. First reduced flood points to 226 and then brought it down to 96 in October 2017." However, the pending ones were minor works and BBMP Engineers were confident of completing them soon. Most primary drains are being maintained and de-silting is being done often to handle excess flow of water. The drainage system is an essential part of living in a city or urban area, as it reduces flood damage by carrying water away. Fundamentally, the existing infrastructure and drainage system in the city cannot handle the excess water whenever there's a downpour. Originally, storm water drains in Bangalore were designed in keeping with the three valleys that run across the city Vrishabhavathy, Hebbal and Koramangala-Challaghatta. They served the purpose so long as the population of the city was within a certain limit. The unprecedented growth of Bangalore, unaccompanied by the necessary infrastructure, has precipitated problems of a large magnitude. The city drainage system comprises major drains which need to be widened .As you are widening roads , roadside drains and shoulder drains need to be widened , otherwise all of which get overburdened during the rainy season and city may submerged like Chennai disaster happened recently.As you widen the roads at the same time you need to widen the drains to drain out the water outside the city . The drainage system is an essential part of living in a city or urban area, as it reduces flood damage by carrying water away. Fundamentally, the existing infrastructure and drainage system in the city cannot handle the excess water whenever there's a downpour..BWSSB should immediately stop sewage flowing in open storm water drains and Raja Kalve and Lakes . BWSSB must have UGD for sewage disposal and it should not allow sewage to mix in open storm water drains and Raja Kalve and Lakes . BBMP has taken up road widening projects but never had taken up drainage widening and deepening projects. Thousands of private and BDA and BMRDA layouts came in but Size of road side drains never increased then where and how the water is drained out from Bengaluru. This oversight in planning will doom and kill the cities. Urban planners only given thrust on wide roads and fly over's without deepening and widening storm water drainage system which makes many urban cities to submerge during rainy season which result in loss of life and property. Be it the impact of climate change and global warming or something else, we must be prepared for changes in temperature and untimely rain and floods. If BBMP wants to avoid Mumbai and Chennai like disasters it has to wake up and create new drainage systems to entire Bengaluru city.

Design New Drainage for Bengaluru: Flood risks and drainage are key considerations when planning all new suburbs. Today, underground drainage systems are generally designed to cope with frequent storms – those with a 20% chance of occurring in a year. Any excess water travels along planned overland flow paths that carry water away from properties. This prevents them from flooding in the majority of storms – up to those with a 1% chance of occurring in a year. We also look at other benefits when designing drainage systems, including the impact on rivers and creeks. For example, when building drainage in Bengaluru we also need to install gross pollutant traps, which capture large litter items like plastic bags, bottles, newspapers and cigarette butts to prevent them being washed into rivers and creeks. We need to create Basin to include a wetland to improve storm water quality, provide greater flood protection, and allow storm water to be harvested to water harvesting open spaces. You can construct big underground water tanks to store rains waters at open grounds through out bengaluru .Entering storm water drains is dangerous and illegal, and could cost you your life or endanger others who rescue you. What's required is a comprehensive approach to the problem, which essentially involves putting in place a new widened sustainable drainage management system as in developed countries. A storm water drain renovation and widening and deepening and management project had to be prepared for Bangalore and implementation it without delay. In the meantime, risk assessment of vulnerable areas must be carried out and corrective measures taken to minimize them. According to reports reaching here ,

The incessant rain in Bengaluru has got the education department worried .All schools have been asked to have a disaster management plan in place, and the 34 deputy directors of public instruction (DDPIs) have been told to monitor implementation. Bengaluru and other parts of Kar nataka have been receiving heavy rain which has impacted schools and the security of students. On October 11, in Kolar district, 70 people, including students, were rescued from a flooded school after a six-hour operation. The condition of some government and private schools situated in low-lying areas of Bengaluru also suffered the same problem after heavy showers. According to National Disaster Management Authority (NDMA) guidelines for Safe School Policy 2016, schools should have their own disaster management plan for every situation; capacity building of children, teachers, school personnel, state and district education machinery on school safety and disaster preparedness; implementing child-centered, community based disaster risk reduction in the local context; mainstreaming risk and safety education in the school curriculum; linking school safety in the existing government schemes and policies and coordination between district, state, and central government.

Observing that ridding Bengaluru's storm water drains (SWDs) of sewage is a Himalayan task, the high court suggested a high-power committee comprising experts/technocrats be formed to address the problem. "Have you gone near a storm water drain? We cannot stand there for more than two minutes because of the foul smell. Cleaning those drains is a Himalayan task. Meetings of officials won't do. We need the brains of technocrats and experts from IISc and other institutions." a division bench headed by the then Acting Chief Justice H G Ramesh reportedly had observed the comments. The CM said he has been living in Bengaluru since 1983, and has never seen such heavy rain which happened reverently. "During last year the 60 days, it has rained on 46 days. It was not ordinary rain, on most days, it rained heavily. Drains in Bengaluru do not have the capacity to withstand so much rain at a stretch," Reportedly the Karnataka government proposes to develop Bengaluru's 850km stor m water drain (raja kaluve) network. Former Chief minister Siddaramaiah last year had told reporters that storm water drains in Bengaluru were unable to bear the load of heavy rain lashing the city over the past two months, and blamed the previous government of its failure to fix the storm water drain network. He said he had already sanctioned Rs 800crore for the development of 350km of SWD network, where the problem is acute, to prevent rain-related mishaps. Development of the remaining 500km of drain network will be taken up next year, he said, adding that all encroachments, illegal buildings and silt will be removed in the process. It is evident that BBMP didn't give importance to the development of raja kaluve or to clear encroachments on drains, nor did they increase their capacity by removing silt and building retaining walls, leading to the problems dogging the city today .According to press reports the incessant rainfall over the past two months has made 2017 the wettest year for Bengaluru city. The annual rainfall for the city , 1,615.2mm as on Saturday morning, is the highest ever. It is 8.4mm more than the earlier record of 1,606.8 mm, in 2005. The Indian Meteorological Department has rainfall data for 115 years. A meteorological department official said the city is facing a unique weather system wherein the south-west monsoon has extended its stint and soon the north-east monsoon will arrive. The combination of the weather system coupled by low pres sure situation created in the Arabian Sea is resulting in showers over interior Karnataka and Bengaluru falls in this region, ". "One has to analyse the possible relation to climate change as extreme weather events are related to it. Bengaluru is a growing city and has been experiencing heat island effect which further results in rainfall after a prolonged harsh summer or dry run, ". Improve Bengaluru need new drainage system with deep wide RCC box Drainage system which should take the total maximum load of down pour at maximum rains and it also need under ground pipe drainage system to drain out water from low lying areas to reach the natural gradient .The blunder committed by urban planners and BDA prepared CDP without reference to storm water drains and irs safe disposal .No wide and deep drainage systems is planned as per requirements of city growth and rain predictions . As there is urgent need to close the cover the lakes with concrete walls allow the only rain water only enter in the lakes and at the same time big new drains and underground pipes need to be laid and constructed to drain out the storm water outside Bangalore .As you widen the roads at the same time you need to widen the drains to drain out the water outside the city .

The BBMP, under severe criticism for mismanagement of civic assets — seen as a major cause for flooding in Bengaluru last year Last year an unfinished storm water drain in Rajyotsava Nagar, II Stage, Kumaraswamy Layout, is making life difficult for residents, who say the drain overflows every time it rains, inundating roads and their houses. According to reports "Work on the drain started about 4-5 months ago, but stopped one-and-half months ago. With the flow of water obstructed, colonies of mosquitoes thrive here, and it has become very unhygienic," said a resident. Frequent bouts of rain over the past two months has only worsened the situation, residents said. "The quality of work is not very good, and each time it rains, the drain flows over and floods the road, which is not tarred. Sewage water enters our homes, and mixes with water in our sumps, ruining our drinking water source. Workers claim that rain is preventing them from working, but even when it isn't raining, they are not here. A board at the spot says they need 20 months to complete work," said a resident. A government Urdu school, with 300 students on its rolls, is also in peril. "A stink emanates from the drain which attracts mosquitoes as well. It sends water gushing into our compound. Since the drain is next to the school building, about 4-5 columns of the school building too seem to have weakened," said an assistant teacher of the school. Reportedly "Engineers working on the project sent them a memo, asking them to vacate the building and ask their department to provide alternative arrangements, as the building had weakened .They had no place to go. However, once the retaining wall was built, the threat was eliminated. But the block education office told us they will demolish this structure and build a new one, he added. The residents wrote to the BBMP commissioner, but nothing seems to have come of it. The corporator is not very helpful either, they say . "We had written to the principal, asking them to shift from the school, as it abuts the drain and there was a chance of the structure collapsing. However, now that they have built the retaining wall, the chances of that are negligible. BBMP is now building a proper concrete drain, and work will be completed in 25 days," the BBMP engineer said. In Kurubarahalli 18th cross, a couple -Shankarappa, 50, and Kamalamma, 42 -died after their compound wall collapsed on them. " A retaining wall of a nearby storm water drain crashed sending water gushing into their home. With 4-5 feet of water inside their house, the couple decided to go to the terrace. As they got out of their home, the compound fell on them," police said. A few meters away in SVK Layout, a temple priest was washed away in a storm water drain around 7.30pm. Police said Vasudev, 45, was trying to clear a block that he thought may have resulted in inundation when the drain wall collapsed and he was washed away in the water. His body was found around 11pm. "The priest and a couple died, while two others were washed away . I am in touch with my people. This unprecedented rain has posed unprecedented challenges, we are taking all the required measures," Bengaluru development minister KJ George told reporters .Death of a road a Unique protest to wake up BBMP: Residents reportedly invoke Yamaraj to highlight pothole menace A road laid to rest. Yes, you read that right. This is precisely what 120 residents of Kaggadasapura, Byrasandra, CV Raman Nagar and GM Palya did on recently when they placed wreaths and lit candles on a 'grave' marking the 'demise' of Kaggadasapura Main Road in East Bengaluru. A mortal incarnation of Yamaraj, the god of death, accompanied the protesters to highlight the gravity of the situation. All of this was done to draw the attention of the BBMP to the pathetic state of the road that has been riddled with huge crater-like potholes for the last six months. A man dressed as Yamaraj was present at the protest site to lead the battered road to 'its heavenly abode'. As homage, residents placed wreaths and flowers on a symbolic grave, representing the mortal remains of the road. Fed up with the lacklustre attitude of civic authorities, the local corporator and MLA, citizens decided to organize a silent symbolic protest near the entrance of Versova Layout on the same road. Kannan Iyer, member of Versova Layout Resident Welfare Association and a volunteer activist with Save Kaggadasapura Lake community group, said: "Kaggadasapura Main Road has been dotted with huge potholes for the last six months. Several heavy vehicles, cars, buses and two-wheelers have got stuck on this road due to its deplorable condition. Not just that, a couple of months ago, a bus hit and killed an African national as the driver tried to avoid one of these killer potholes. However, no action was taken by the civic



authorities despite our repeated complaints and letters." A Resident said the silent candlelight protest was organized to highlight the condition of the road. "For us, the road no longer exists and is dead. Recent bouts of rain have worsened the condition. In fact, walking on this road is next to impossible now," the resident added.

The BBMP is not bothered about RTI Act .It has not published declaration under section 4(1) (a) (b) (c) (d) on its website such that every information is available to public in respect of Drainage system with deep wide RCC box Drainage system and when they have been cleaned and hat is their storm water carrying capacity . The KIC should take task on BBMP for these blunders. The BBMP has to publish every year the work they carry out or the information they create under 4(1) (a) (b) (c) every day ,but it did not published all the work carried out by the BBMP under section 4(1) (a) (b) (c) (d) of RTI Act 2005 and it has not provided citizens and opportunity to ask the reasons under section 4(1) (a) (b) (c) (d) . This information and reasons need to be provided to everybody as per Guide on RTI to Information Act 2005 published by the Government of India Ministry of Personnel, Public Grievances & Pensions Department of Personnel & Training (available here :<http://rti.gov.in/RTICorner/Guideonrti.pdf>) on page 12 and Para 9, following is stated: Providing Reasons for Decisions: The public authorities take various administrative and quasi-judicial decisions which affect the interests of certain persons. It is mandatory for the concerned public authority to provide reasons for such decisions to the affected persons. It may be done by using appropriate mode of communication .Attention is also invited towards the thread '[affected person ' under rti act](#).In fact, it can be said that "Affected" refers back to an action. The "Affected Persons" are the ones who are affected by that action. The reasons need to be given to affected person and copy of that can be given to me under 2 f of RTI Act. The BBMP office is THE PUBLIC AUTHORITY under obligation to provide information "PUBLICLY" under section 4(1) (a) (b) (c) (d). The state government and all its departments need to publish everything they do in year as per RTI Act 2005 and this need to be published every year and applicant asking information becomes easier to provide also to the applicant and Government becomes transparent . Citizens can force every PA to create information every day strictly as per the system and procedure as per listed Acts and rules regulations listed under 4(1) (a) (b) (c) every day and that can be cross checked by applicant by asking reasons under 4(1) (d) by the affected person and copy of the same can be given to any applicant under 2(f) of RTI Act .

Promote transparency and accountability in the working of every public authority. Policy on Prevention, Detection, and Remediation of Fraud and Corruption by government is must and a major element of good governance is the control of corruption. For that reason, controlling corruption has been a key indicator. Good governance is a keystone of government. UPA government has given you RTI Act: Use It optimally :All opposition parties should use RTI optimally .Let they create booth wise RTI activists among their members or cadets and give them training and set of questions and gather that booth level information to perform better as opposition parties .Prime Minister should listen to opposition parties as they are voice of 66% voters. All responsible citizens should send RTI Question to each MP and each Minister and Prime Minister and get to know every day what they are doing and what they are performing and keep check on their performances and give them clear indication that India is awakened and want responsible Government which listens citizens..THE INFORMATION IS CREATED UNDER RTI ACT 4(1) (a) (b) (c) 2005: And PA is obligated to provide this information created earlier and created every day and updated publicly and freely to all. Under 4 (1) (a) information is created before 2005 is computerized : The public authorities were functioning since before RTI ACT 2005 Under 4 (1) (a) they need to computerize the all available records and catalogues and make them available in digital or electronic format on electronic network. PA is obligated to provide this information publicly and freely.Under 4 (1) (b) information is created every day: The public approaches every day with request letters and applications and grievances to public authorities .The public authorities functions every day and they create information on the request letters and applications and grievances to public authorities as per organizational function and duties and as per the norms set by it for the discharge of its functions; and as per the rules, regulations, instructions, manuals and records, held by it or under its control or used by its employees for discharging its functions and as per the powers and duties and procedures followed in decision making process including channels of supervision and accountability as per the rules, regulations, instructions, manuals and records ; under 4 (1) (b). The PA must declare publicly and provide information publicly and free of cost in respect of (iii) the procedure followed in the decision making process, including channels of supervision and accountability; (iv) the norms set by it for the discharge of its functions; (v) the rules, regulations, instructions, manuals and records, held by it or under its control or used by its employees for discharging its functions; (vi) a statement of the categories of documents that are held by it or under its control; (vii) the particulars of any arrangement that exists for consultation with, or representation by, the members of the public in relation to the formulation of its policy or implementation thereof; (viii) a statement of the boards, councils, committees and other bodies consisting of two or more persons constituted as its part or for the purpose of its advice, and as to whether meetings of those boards, councils, committees and other bodies are open to the public, or the minutes of such meetings are accessible for public; (ix) a directory of its officers and employees; (x) the monthly remuneration received by each of its officers and employees, including the system of compensation as provided in its regulations; (xi) the budget allocated to each of its agency, indicating the particulars of all plans, proposed expenditures and reports on disbursements made; (xii) the manner of execution of subsidy programmes, including the amounts allocated and the details of beneficiaries of such programmes; (xiii) particulars of recipients of concessions, permits or authorizations granted by it; (xiv) details in respect of the information, available to or held by it, reduced in an electronic form; (xv) the particulars of facilities available to citizens for obtaining information, including the working hours of a library or reading room, if maintained for public use; (xvi) the names, designations and other particulars of the Public Information Officers; The above information created by everyday by PA need to be updated and put on electronic network every year as updated information. Under 4 (1) (c) information is created by PA: The PA need to publish all decisions and policies and relevant facts which affects public.The Accountability is checked by public under 4 (1) (d): The citizens who are affected by decisions made under RTI ACT 4(1) (a) (b) (c) can seek reasons for their administrative and quasi judicial decisions .PA can provide reasons to affected person and copy of such reasons can be provided to anybody under 2(f) of RTI Act.

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