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REPORT

**OF THE EXPERT
COMMITTEE FOR
PRESERVATION,
RESTORATION OR
OTHERWISE OF THE
EXISTING TANKS IN
BANGALORE
METROPOLITAN AREA**

REPORT

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OF THE
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WITH THE RAPID GROWTH OF
BANGALORE'S POPULATION &
PROLIFERATION OF BUILDINGS
ROADS, AND VEHICULAR TRAFFIC,
WATER SHEETS AND TREES
BECOME VALUABLE ASSETS TO
IMPROVE THE HEALTH AND
QUALITY OF LIFE FOR
BANGALORE'S RESIDENTS.

REPORT OF THE EXPERT COMMITTEE CONSTITUTED
BY THE GOVERNMENT FOR SUBMITTING THE PROPOSALS
FOR PRESERVATION, RESTORATION OR OTHERWISE OF
THE EXISTING TANKS IN THE BANGALORE METROPOLITAN
AREA.

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Introductory:

While complimenting Karnataka Government on their decision to set up the above Committee, members of the Committee have unanimously felt that the clear establishment of one or more implementing agencies to undertake a programme of follow-up and implementation of recommendations of the Committee, is of paramount importance. It would also seem appropriate to involve some of the members of this Committee in the implementing agency or agencies.

Another suggestion which the Committee would like to place for consideration is the sense of urgency it wishes to reflect in the conservation and rehabilitation efforts which will hopefully follow. The rate of increase of Bangalore's population and the rate of deterioration of its tanks, have both become alarmingly accelerated and a sense of urgency is needed in stemming the tide of degradation of the environment which has resulted therefrom.

The rate of growth of population in Bangalore has been phenomenal and today is about 3'4 lakhs. The city has the dubious distinction of becoming the fastest growing city in India during the period 1971-81 and has become the fifth largest city in the country. Due to this rapid expansion and inadequate provision of recreational facilities like parks, the environs of Bangalore has deteriorated seriously. One of the important reasons for deterioration is the extinction of Bangalore's water bodies.

A well maintained water body, apart from having an effect on the environs, serves as a focal point for creation of recreational facilities and contributes to maintaining the ground water aquifer at a reasonable level.

Drying up of tanks has been reducing the ground water level.

In the Bangalore Metropolitan Area which covers Bangalore North and South Taluks, and parts of Hosakote, Nelamangala, Magadi, Anekal and Devanahalli Taluks, several tanks have been breached as a part of the Malaria Eradication Programme in the past. These breached tank beds have been utilised for erection of buildings.

Examples of such tanks are:

1. Subhashnagar Tank bed
2. Miller Tank bed
3. Akkithimmanahalli Tank bed
4. Kurubarahalli Tank bed
5. Kodihalli Tank bed
6. Nagashetty halli Tank bed
7. Siniyagilu Tank bed.

Further, most of the remaining water tanks in the city are polluted by the discharge of sewage water, causing serious damage to the environment.

Government had earlier constituted Committee for improvement of Ulsoor Tank and Yediyur Tank. These two tanks are maintained as water sheets and the surrounding areas developed by Bangalore City Corporation and are now available for recreation.

2. Constitution of Committee:

In order to examine all aspects of the problems relating to preservation, restoration or otherwise of the existing tanks with a view to maintaining

desirable environment, Government constituted an Experts Committee in Order No. PWD 82 IMB 85 dt: 26.7.85 with Sri. N. Lakshman Rau, IAS(Retd), Chairman, Local Finance Commission, as the Chairman.

The following are the Members of the Committee constituted by Government.

1. Sri. S.Hanumantha Rao,
Chairman, Board for Prevention &
Control of Air and Water Pollution,
Bangalore.
2. Sri. K Ananth,
Engineer-Member,
Bangalore Development Authority,
Bangalore.
3. Sri. B.G.Channappa,
Addl. Director,
Ground Water Survey,
Department of Mines & Geology,
Bangalore.
4. Dr. R.M.Malavaiah,
Director of Town Planning in Karnataka,
Bangalore.

In addition, the Committee co-opted the following members:

1. Sri.M.A.Parthasarathy,
Member-Secretary,
Bangalore Urban Art Commission,
Bangalore.
2. Mr. P.D.Gaonkar, I.F.S.
Addl. Chief Conservator of Forests,
Social Forestry, Bangalore.
3. Sri.N.Sampangi, I.F.S.
Consrvator of Forests,
Bangalore Circle, Bangalore.
4. Sri. Thyagarajan, B.N.
Chief Engineer, Bangalore Water-Supply
and Sewerage Board, Bangalore.
5. Sri. A.C.Anantha Murthy,
Superintending Engineer,
B.D.A. Bangalore.

6. Sri. Peginhal, S.G., I.F.S.
Deputy Conservatory of Forests,
Green Belt Division,
Bangalore.
7. Sri. P. Venugopal,
Asst. Executive Engineer,
Minor Irrigation Department,
Bangalore.

A copy of the Government Order appointing the Committee is appended Annexure.I.

The Committee also had the benefit of the views of Sri. Zafar Futehally of the IIM who had made some suggestions relating to the problems of areas abutting certain tanks.

The Committee had four sittings and conducted three inspections with a view to formulating their views. In the Government Order referred to the time limit prescribed for submitting this report was three months. However, as the time was not sufficient, the Committee requested the Government for extending the period upto 31.4.1986.

3. Tanks in Metropolitan Area:

There are about 390 tanks within the jurisdiction of Bangalore Development Authority. Government have allotted the following tank beds to the Institutions mentioned against their names:

<u>Name of Tank</u>	<u>Name of the Institution</u>
1. Nagashettyhalli Tank	Allotted to Space Dept. and others.
2. Kadugondanahalli Tank	Allotted to Ambedkar Medical College, Bangalore.
3. Kodihalli Tank	Allotted to Space Dept.
4. Challenghatta Tank	Allotted to KSTDC for Golf Course.

Following Tank beds have been utilised by Bangalore Development Authority as Civic Amenity sites or layouts.

1. Geddalahalli Tank
2. Karisandra Tank.
3. Kadirenahalli Tank.

In Siniyagilu Tank bed, Bangalore Development Authority has just begun to form a layout where the roads and the sites are marked, but no work has been taken up as yet. Since no expenditure on the actual development of the sites has been incurred so far, and the tank bed is recorded in the Comprehensive Development Plan, it is necessary to take urgent action to prevent this tank bed from being converted into residential sites, so that it could be developed as a much needed tree park in the midst of the layout.

There are other live and disused tanks which are situated within the conurbation boundary proposed to be developed as layouts by Bangalore Development Authority and action is to be taken to ensure that the Bangalore Development Authority does not proceed with layouts in these areas.

The area covered by parks and open spaces in the city according to Land Use Survey conducted by Bangalore Development Authority during 1983 is 2050 ha. which constitutes 10.11% of the built up area. According to the Planning standards, it is necessary to provide 10% of the city area as parks and open spaces. In the Comprehensive Development Plan, approved by the Government on 12.10.1984, 5960 ha. which constitutes 13.57% of the proposed conurbation area is reserved for parks and open spaces. In addition, 83,972 ha. which constitutes 2/3rds of the Metropolitan area is also reserved as green belt. There is

a need to develop the parks and Tree Park as proposed in the Comprehensive Development Plan including maintenance of water sheets like; Ulsoor Tank and Yediyur Tank.

The tanks within conurbation area which are available for making Committee's recommendations are categorised as:

1. Disused Tanks.
2. Live Tanks.

3(a): Disused Tanks:

There are 46 disused tanks in Bangalore including the tanks already utilised by several agencies as stated earlier.

There are 81 live tanks in Bangalore in the conurbation area. In the green belt proper, that is between the conurbation boundary and the metropolitan area boundary, there are 262 tanks. Almost all the live tanks in the green belt have a ditch under them and thus cannot be breached. As such they are not proposed for any development. They should continue as water bodies for obvious reasons.

Out of the 46 disused tanks, 10 tanks are already utilised by the Horticulture Department, Bangalore City Corporation, Bangalore Development Authority or allotted to institutions. The Committee reviewed the details of the disused tanks and it is recommended that the tank bodies/^{be} developed for various purposes. Details of the tanks and the recommendations of the committee are indicated in Annexure-2.

The Committee is of the view that the establishment and maintenance of gardens would be expensive and that tree parks could be developed immediately by the Forest Department. Tree Parks would, as well,

serve as recreational centres for the city population and further prevent encroachment of the tank beds.

Against this background, at the first meeting of the Committee held on 9.8.1985, it was resolved that pending final recommendations, the Government should be addressed to issue necessary instructions to the authorities concerned on the following lines:

1. No layout should be allowed to be formed in tank bed areas either by the Bangalore Development Authority or by any other body;
2. Water sheets should be maintained wherever it is possible and sewerage and other pollutants should be suitably diverted;
3. The dried tank beds should be utilised to develop Tree Parks;
4. In live tanks, off shore planting between full tank level and maximum water level contour area should be undertaken;
5. Bangalore Development Authority should not take up formation of sites in tank beds as in Sinivegilu tank bed;
6. Pending Final report, Government should be addressed that the tank beds should be utilised only for parks, regional parks, tree parks, picnic spots and as water sheets and on no account the tank beds be allowed to be used for any other purpose;

The Committee is happy that Government took action promptly and issued necessary directions vide letter No. HUD 794 TTP 85 dt: 31.12.85 (Annexure-3) to the authorities.

The last Chapter of the report is devoted to our suggestions relating to implementation of the recommendations. We are confident that the Government will take decisions on these suggestions.

Forest Department has adopted fore-shore planting in Sankey Tank, Hebbal Tank, Arasinakunte Tank and a scheme was drawn up to beautify the tanks and surrounding areas so as to attract bird life etc.

Committee is of the view that all such tanks in built up areas should be developed on similar lines.

4. General proposals for Preservation & Development of Tanks:

The Committee observed that the present trend regarding the tanks in the conurbation area, is to breach the tanks and utilise the tank beds for formation of sites or for other building activities. The tanks are getting silted up. There is also contamination due to in-flow of sullage water and effluents. In some cases the tanks are even used for disposal of solid wastes thereby destroying rich soil of tank beds and ultimately breaching of tanks is being proposed. On the other hand, these tank beds, if preserved and developed properly, would enhance the environmental qualities and would also serve as recreational places.

The tank beds could also serve as out-door recreational areas which is very much needed for the urban dwellers.

Keeping in view the problems and prospects of the tanks, the Committee discussed the various uses to which the dis-used and live tanks in and around Bangalore could be put to, and it was decided to make the following recommendations.

1. Tanks with standing water should not be breached, but should be maintained as water sheets to preserve the micro climate and environmental qualities. In polluted water tanks the water should be cleaned and maintained. Water front development should also be taken up to enhance the urban aesthetics in the surrounding areas by taking up fore-shore planting of saplings etc.

2. Bangalore city which will have a population of 70 lakhs by 2001, needs more and more picnic spots to serve as recreational areas and serve as long spaces. Bigger tanks with standing water should be developed as picnic spots with facilities for boating illumination, ornamental parks and such other recreational facilities. If necessary, adjoining lands may also be acquired for the development of picnic spots. But pending all the above proposed developments, foreshore planting may be taken up immediately;
3. Except Cubbon park and Lalbagh, no sizeable parks are lately developed. Bangalore Metropolitan city needs 6 to 8 regional parks of reasonable size. For a growing metropolis like Bangalore, it is necessary to develop such regional parks, well distributed. The tank beds and the surrounding areas offer the ideal location for the regional parks:
4. Due to constructional activities, greenery in and around Bangalore is eroded. It is necessary to take compensatory measures by developing tree parks. Dis-used tanks in the proposed conurbation area could be utilised for developing tree parks and recreational forests. Development of forest nurseries could also be taken up in such disused tanks;
5. The live tanks in the conurbation area and the green belt area provide vast extent of land for fore-shore plantings between the full tank level and the maximum water level. Such fore-shore planting without obstructing the feeder nala of the tank will help to prevent silting of tanks apart from providing greenery around the tanks. In addition, the planting of trees and development of tree parks will help to prevent the encroachment of tank beds.

It is necessary to preserve the live tanks or water bodies either for irrigational purposes or for recreation and also for maintaining the environs. But, immediate action is necessary to take up fore-shore planting there and also to remove and prevent the encroachments. Taking up plantation along the boundary of the water sheet, will prevent further encroachment and siltation. Gundthopas and Government lands including burial grounds, hillocks, should also be preserved and not allotted to any private party or institution for any kind of development except for raising wood lots.

5. Approach to the problems:

It is common knowledge that while planning new extensions, there is a temptation to create as much sital area as possible by utilising even the tank beds. This temptation should be resisted if the extensions are to be, not only resthetically acceptable but also really functional. Government have rightly observed in the preamble to the Government Order constituting this Committee, that the developmental authorities have consistently tried to develop and breech tanks to make sites. Secondly, at one time, the idea of de-watering the tanks by breaching them in the polluted areas was considered as necessary for controlling the mosquito menace. But now it is accepted by all town planners that there is a necessity for maintaining water bodies and also preventing them from getting polluted since they have a definite impact on the environment and local climate and also enhance the aesthetic value of the city.

The National Commission on Agriculture, in 1976 made the following observations in the course of their reports.

" Recreation Forests- The urban population needs a break from its busy, tiring and unhealthy routine. As every one cannot go to distant National Parks or forests, it should be possible for the State to bring part of nature closer to the city dwellers. This can best be achieved by developing pieces of land in or near cities into forest parks, gardens etc. These green patches should be well distributed to function as city lungs. In some cities, the local administrations have already shown an awareness of this need and parks and gardens have been developed in available land. As the maintenance of gardens is expensive, larger areas can be planted with suitable trees, shrubs, and creepers to provide a forest atmosphere. Along fringes, flowering trees, shrubs and creepers should be planted to give an impression of specially looked after areas. Such forest parks are generally very popular and contributed to the general uplift of the health of the urban population. Skilful planning of the species to be grown, planting pattern to be followed, alignment and specification of the roads and paths, with the idea of creating and maintaining natural forest character, is necessary to create effective landscapes in such parks. Existing forests in or near cities should not be felled or released for industrial or other purposes and in fact should be given legal protection by declaring them as reserved or protected forests. Rocky back grounds of cities and towns should also be preserved.

In recent years there has been a better appreciation of the need for outdoor recreation. Forests which are easily approachable from cities are being developed as recreation forests. In these forests, provision is generally made, against forest back ground, for facilities such as; shelters, cafes, guest houses, holiday huts, children's parks, picnic places and facilities for viewing wild life. With increasing interest in outdoor recreation, such developments are bound to be more popular and the Forest Department will be called upon to make them regular feature of environmental development. Such recreational forests have to be developed, primarily with aesthetic considerations and planning of such forests would need the joint effect of experts in various fields such as forestry, horticulture, architecture and engineering."

In a city like Bangalore, it is hardly possible to get large open spaces for conversion into tree parks and it is therefore recommended that atleast the breached tank beds may be utilised for the purpose namely; either as a city tree park or recreational forest. The Committee has observed that the maintenance of gardens and parks is expensive and takes a long time to develop. The better course would be to convert them into tree parks.

Already various departments have developed such mini forests and parks as stated earlier. The Members of the Committee visited one park and one instance of fore-shore develop^{ment} taken up by Forest Department namely; Arasinakunte (on Tuakur road near Nelamangala) and Hebbal Tank on Bellary road respectively. These two area good examples of recreational forest and fore-shore development of the tank beds.

The above recommendations have been made keeping there considerations in view.

6. Specific recommendations in respect of some important tanks:

1. Hebbal tank:-

This is a important tank situated on Bellary Road. Its extent is 65.4 hecets and the catchment is 178.4 hecets. This is one of the big tanks in Bangalore on the eastern part of the city.

During the inspection of the Committee, it was observed that water hyacinth is covering almost the entire water sheet. Some time back PWD got the weeds removed by M/S. Larson and Toubro Ltd. But now the weeds are back which shows that de-weeding cannot be a one time operation and it has necessarily to be a regular feature.

However, the Committee felt happy that the Forest Department has already taken up fore-shore development and have raised a very good nursery.

The Committee strongly recommend developing rest of the fore-shore on similar lines which can really become a pic-nic spot in addition to preventing silting up of the tanks and contributes to the aesthetic and environmental value of the area. In fact the Comprehensive Development Plan for Bangalore has proposed development of this area as regional park (271 hecets) consisting of Hebbal Tank and Doddabommasandra Tank which is on the western side of Hebbal Tank covering an area of 46.44 hecets.

2. Sankey Tank: -

This tank is in between Malleshwaram and Sadashivanagar and is a live tank. The area covered by the tank The area covered by the tank is 10 hecets. According to the Bangalore Development Committee Report, at one time, a large belt immediately adjoining the water spread, had been cultivated with cashew-out trees in order to prevent erosion of land. It is understood that there was a proposal to cut down the cashew nut trees and to

develop the area into residential sites. Therefore, they suggested that this area be preserved as an open space. However, today the cashew nut trees do not exist but some trees have been planted. In the meanwhile, a proposal for putting up a Children's Film Society building has been approved by Government. This matter was also considered at the meeting of the Bangalore Urban Art Commission held on 2.12.85 and they have observed as under:

" The meeting thereupon took up a discussion of the reported decision of the State Government to locate the children's theatre complex on the banks of the Sankey lake adjacent to the existing nursery and park. Members expressed their concern over the said development, particularly considering the likelihood of the impact of the structure of the complex on the shoreline of the tank and the adverse effects thereof on the already threatened tank environment and ecology. Apart from this, the theatre will replace the existing park and encroach upon an area that needs to be covered with more vegetation. After discussion of the subject at length, the meeting decided to represent to Government against the setting up of the said theatre complex at the location in question in view of the likely adverse effects on the tank and the whole environment of the already threatened lake. It was decided to recommend to the Government to locate the same either in the available open space at the side of the planetarium which is also meant for children, or in the adjacent LRDE lands which have been reportedly earmarked partially for a Convention centre. It was felt that the

Location of the complex on a part of the Convention Centre would also be quite appropriate, considering its proximity to the planetarium. Also, the theatre complex and the Convention Centre could together constitute an agreeable dual-facility in a park setting situated close to the planetarium with adequate parking facilities. Further it was noted that the proposed Children Theatre complex at the Sankey Tank would be too far away from the centre of the city, whereas the LRDE area would be a central location".

We are entirely in agreement with the view of the Bangalore Urban Art Commission.

It is seen that the Commissioner, BCC in his letter No. N.E.ME. PR.124. 85-86 dt: 24.12.85 has granted permission to the Department of Tourism "For utilisation of land on the bank of Sankey Tank and Yediyur Tank for the purposes of creating infrastructure" for a period of 3 years on a nominal lease amount as follows:

1. Sankey Tank -- Rs.1000/- p.a.
2. Yediyur Tank Rs. 500/- p.a.

It is understood from the Director of Tourism that action is being taken for creating boating facilities both in Sankey Tank and Yediyur Tank.

However, the important immediate step to be taken should be to clean and stone-rivat the feeder channel of Sankey Tank which emanates from Ramaiah College and is now blocked by several obstructions and silting. Without such basic attention, the Sankey Tank will deteriorate seriously. The Forest Department may be asked to develop fore-shore planting to provide recreational forestry.

3. Yedyur Tank:

This tank is located on Kanakapura Road at the entrance to the Seventh Block, Jayanagar. The area covered by this tank is 6.45 hecets. Already a park has been developed by the BCC on the southern side of the tank. There is a private land on the east of the tank. It is recommended that this land may be acquired by the BCC and the present park extended.

4. Kempambudhi Tank:

It is situated on the south-west corner of Govipuram Guttahalli covering an extent of 14.84 hecets. Bangalore Development Committee constituted by Government earlier on 18.3.1952, mentioned in it's report that this tank is said to have been constructed by Sri.Kempa G Gowda, the Founder of Bangalore and that it is necessary to prevent slums that are coming up around the tank in the revenue lands between the tank, water body and Govipuram Guttahalli Road. That Committee recommended acquisition of this area and developaent as a park. It was also mentioned that there are ancient monuments on the tank bund and the whole area should be improved and preserved.

The Committee visited the site, As sullage from the city and also from the adjoining houses has been continuously flowing into the tank, the sluice was opened about a decade ago and the BWSSB was requested to divert the sullage flowing into the tank. Though some action has been taken by the BWSSB in this regard, still the position continues to be bad. A park was laid out by the BCC on the southern side of the tank. Tree Park has been created in the fore-shore to the north of the park. This fore-shore planting provides much needed greenery and greener back drop.

It would be in the fitness of things if the entire tank bund is properly landscaped and the area which is found filled up next to the park converted into a play ground. Once the flow of sullage into the tank is stopped, then the sluice could be closed and tank allowed to fill up. In our opinion this tank should not be allowed to be breached and it is to be maintained as a water body and a park and play ground formed in the filled up area on the south. In this connection, it may be stated that it is only recently as stated above, an attempt has been made to improve the Kempambudhi tank area by creating a swimming pool, a garden etc. The condition of the tank has been the subject matter of debate for decades now and it is interesting to note that as long ago as during 1943, the then Hon'ble Minister for local self Governmant made the following observations in the Legislative Council in regard to this subject.

During the course of the debate, some reference and even some adverse comment, was made by a member on the condition of the Kempambudhi tank in Chamarajpet. "It requires no corroboration on my part that the tank is in a most insanitary condition. The Hon'ble Minister for Local Self Governmant has visited the spot recently. On account of the insanitary condition of the tank, Chamarajpet has become the hot bed of typhoid, intermittant fever and diarrhoes and small pox, These diseases are prevalent in Chamarajpet during all the seasons. That the tank and its surroundings are in a very insanitary condition is no doubt, true. But who is responsible for such insanitary condition is the question for consideration. It is no good saying that the Municipal Council is callous and are not doing their duty properly and that the Municipal

Council must be superseded. To say such a thing serve no useful purpose. The tank was there for years and years, perhaps, even at a time when the Hon'ble Member made a suggestion for its supersession. Even at that time, the sewage water was led into the tank, the washermen were making use of the tank and the water from the surrounding mills was led into the tank and people all over the city were making use of the tank. I may say during the last four or five years or even half a dozen years good many improvements were made for the tank. I have got personal knowledge because some years back, I was also in the Municipal Council and I have myself tabled a number of resolutions. I think the Hon'ble Member Mr. S. Narayana Rao who happened to be Commissioner of the Municipality some years back even told me "I do feel for the tank. But what can we do; where shall we bring funds". So, if much could not be done for improving the tank it is because of the poor finances of the Municipality. The city has grown in extent and in population. But the grant given by the Government remains the same for the last 10 or 15 years. Repeated requests have been made to the Government and the members saw the Minister and the Dewan several times in this connection. But to no purpose. Therefore, Sir, I have got to make this submission that the tank is in a very insanitary condition is no doubt true. I only appeal to the Government that since the Municipality is not in a position to spend so much money on improving the tank, the Government may be pleased to do the work themselves, or to give a liberal grant, a special grant for the Municipality for this purpose. I remember Sir, about five years back Sir Mirza Ismail as the then

Dewan of Mysore visited and inspected the Kempambudhi Tank. He said, Sir " I will soon make it a beauty spot". But still Sir, it remains the darkest spot in the city of Bangalore. May I now request your Hon'ble Minister for Local Self Government to help us to realise the happy dream of Sir Mirza Ismail and to earn the ever lasting gratitude of the citizens of Chamarajpet by doing the needful without further delay".

We strongly recommend that this tank and the adjoining areas may also be leased to the Tourisn Dept. who may create boating facilities and also undertake the landscaping of the entire area including the bund. This area could be developed into a real recreational area in the midst of a congested neighbourhood. The Forest Department may also be requested to plant sapplings on the barren hillock and open area available nearby. Fore-shore planting may be done by the Forest Department.

In due course, when found practicable, it would be desirable to consider shifting the burial and cremation ground which is located on the northern side of the bund to a more appropriate location.

5. Ulsoor Tank:

(a) The Committee observed that solid wastes are being dumped on the southern side. This should be prevented and further pollution stopped and water body well kept. Sewage water is also entering the tank from Shivanachetty Garden area and other points and BWSSB may take action to divert the sewage water. It is understood that in Ulsoor Tank area also the Department of Tourisn have initiated action for remodelling and illumination of Kensington Park and beautifying the

islands in the tank. Obviously this tank and the adjoining area has been given by the Corporation to the Department of Tourism for this purpose. We would suggest that at the same time, the area adjoining the tank by the side of the Kempegowda Tower which was filled up about 7 or 8 years ago may also be taken up for developing a park along with the Kensington Park.

5(b) This tank has very broad and deep feeder channels in which yellow bamboos may be planted to enhance the beauty of the lake, without harming the channel. This work may be entrusted to the Forest Department.

6. Madiwala Tank:

It is located on the south-eastern part of the city in between Bannerghatta Road and Hosur Road covering an extent of 112 hecets. On the northern and western portions of the tank, Byrasandra-Taverakere-Madiwala(BTU)Scheme of BDA is taken up. During the inspection by the Committee, a few encroachments were noticed near the tank bed and near the west weir. It is quite possible that the BDA may like to have the tank bund breached and developed as a layout which is to be prevented at any cost and water sheet maintained with foreshore planting and prevent water pollution by industrial waste and sullage entering into the tank.

7. Sinivagilu Tank:

This tank is on the south-eastern part of the city covering an extent of 21.93 ha. Koramangala Extension is developed adjoining this layout on the southern side. Sinivagilu Scheme of BDA proposed to be taken up is surrounding this tank area. It was found during the inspection of the Committee that BDA is trying to take up the layout and earth work has just started. In the Comprehensive Development Plan.

approved by the Government it is proposed to be kept as an open space. Therefore, pending finalisation of this report, the Director of Town Planning and also the Member-Secretary has addressed a letter to the BDA and also to Government that under any circumstance the BDA should not proceed with their plan for conversion of this tank bed into residential sites. In response to this as stated earlier, Government in letter No. HUD 794 TTP 85 dated 31.12.85 (Annexure-3) have directed BDA to maintain the tank bed as open space. Actually, as this tank adjoins a very well developed BDA Extension namely; Koramangala, the best course would be to convert the entire tank bed as a Tree Park and to stop immediately all the activities connected with the formation of layout.

8. Byrasandra Tank:

This tank is located near Jayanagar 4th T Block to the west of BTM Scheme of BDA. The tank covers an extent of 10 hec. In the atchut area, residential buildings have come up. Fencing is provided by the BCC. It is necessary to preserve this tank as a water sheet for the benefit of the areas covered by Jayanagar 4th T Block, Mental Hospital area and the BTM Scheme which is under development. The fore-shore area may be developed as a tree park by the Forest Department.

9. Jakkasandra Tank:

This tank is located adjoining to the Koramangala layout, developed by BDA, covering an extent of 4.5 ha. It is one of the breached tanks and is to be developed as a park or a tree park.

10. Mathikere tank bed:

It is situated in between H.M.T. BDL., factories and Yeshwanthapur. The extent covered by this tank bed is 41 hec. (103 acres-12 gts). The atchcut of the tank has already been utilised for construction of buildings and the tank has been breached. During inspection by the Committee, encroachment of the tank bed was observed.

This tank area is eminently suited for conversion into a Regional Park, as proposed in the approved Comprehensive Development Plan. In the Comprehensive Development Plan, this is proposed as one of the Regional Parks. Unless immediate action is taken, we are afraid that encroachments which are fast coming up in the vicinity may extend to the entire area. It is understood that the people of the locality have been requesting the Government to give a part of this tank bed to form a play ground. This also could easily be accommodated in the wooded area proposed.

11. Kacharakanhalli Tank Bed:

This tank is on the northern part of Bangalore on Hennur Road and is covered by Hennur-Bellary First Stage Scheme of BDA. The extent of this tank is 22.57 ha. This is a live tank but will be surrounded by BDA Housing Scheme. It is understood that Government have taken a decision to locate a Modern Abbatoir (Slaughter house) by BAFCO in Kacharakanhalli Tank bed as the Airport Authorities and the Airfield Environmental Management Committee have objected to its location at Koramangala Tank bed which has been handed over to the BAFCO by BCC. Hence, no proposals are made by this committee.

12) Bellandur Tank:

The Tank is situated adjoining runway to the south of Bangalore Airport and is a large tank covering an extent of 144 h cts (360 acres). This is a live tank with an atchcut.

The tank is one of the biggest breeding ground in Bangalore of mosquitoes. This is mainly because of the entry of sullage into this tank after only primary treatment. This is also completely covered by water hyacinth for the same reason. There have been frequent requests for breaching of this tank especially by the HAL authorities. But this is undesirable. Actually, the effluent from the primary treatment plant is causing the nuisance and not the water body itself. For several years, it has been realised that unless the sewage is subjected to secondary and tertiary treatment, the quality of effluent is bound to be unsatisfactory and a source of nuisance. The same are the conditions prevailing in Vrushabhavathi Valley also. Therefore, the Committee recomaends that in future, BWSSB may be directed to effect secondary and tertiary treatments before letting out sullage to Bellandur Tank or to the Vrushabhavathi Valley.

All attempts should be made to maintain a good water surface in this tank and the Forest Department may develop a wooded area in the foreshore area of the tank. A clean environment is to be maintained in this area in the interest of safety of the air flights as it is adjoining to the runway of the airport. In this context, the Committee recommends that the foreshore of this tank may be planted with eucalyptus citriodora to repel mosquitoes that are breeding in this tank.

15. Lalbagh Tank:

This is another very important tank in the city area and happens to be a part of the Lalbagh and is being maintained by them.

It is stated by the Director of Tourism that they have proposals for further improving of the Lalbagh Tank. However, as this is within the Lalbagh itself, further development as envisaged by the Tourism Department will have to be taken up either by the Horticulture Department or by the Tourism Department. However, some Sewage is still flowing into this tank and unless this is stopped it becomes difficult to improve the quality of the water of the tank and encourage fish life.

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SUGGESTIONS RELATING TO IMPLEMENTATION
OF THE RECOMMENDATIONS

It may be seen from the foregoing that by and large, the recommendations broadly are as under:-

1. Foreshore plantation in the case of live tanks having an atchcut:
2. Creation of tree parks and recreation forests in the case of tank beds which have been breached and the atchcut developed as layouts or utilised for other purposes.

The Committee feels that the proper agency that could take up the work would be Forest Department in the majority of cases. However, a few of them which will be enumerated hereafter could be developed by the Tourism Department. The Forest Department has done impressive works in the case of Hebbal Tank and also Arasinakunte which has been referred to earlier. These tanks are within the jurisdiction of BDA, BCC and the Minor Irrigation Department.

For the purposes mentioned above, they will have to be formally handed over to the Forest Department or the Tourism Department as the case may be. In this connection, it may be stated that in the last two years, the Forest Department, under the directions of Government have taken up plantation of road side trees and in open spaces even within the Corporation and the BDA areas. In view of the importance of the matter, the tanks also could be treated likewise for the purpose mentioned. In this connection, it may be mentioned that the Government in their Order No. FFD/171 FAP 81 dated 27.7.1982

(Annexure.7) have created a Green Belt Division in Bangalore for taking up a massive tree planting programme in and around Bangalore. Though in the original order certain posts have been created for only one year, the currency of the scheme is being extended year by year. We would suggest that this Division may be made permanent and entrusted also with the work of creation of tree parks and recreational forests and fore-shore plantation of live tanks in addition to the task already entrusted to them.

It is true that in the conurbation area, most of the live tanks have an atchuct/^{under} them. The present recommendation is not to hand over such atchcuts or the tank beds to the Forest Department but only the fore-shore are bordering the tank bed upto full tank level. Silting up of these tanks will be reduced to a considerable extent if wooded areas are developed in the fore-share area.

At the same time, it is to be mentioned here that many of the tanks are now completely or partially covered by water hyacinths. The Minor Irrigation Department which is incharge of these tanks will have to arrange for deweeding of these tanks on a continuing basis if the water bodies are to serve any useful purpose.

Conclusion:

The existence of water sheets or water bodies are an important asset to the environment of Bangalore, and have a beneficial effect on the Micro-climate of the city.

With these in view, the Committee has recommended that:

- a) The existing water bodies act as recharging resources to ground water on the down stream which will help to draft water through dug wells/bore wells meant for domestic or industrial purposes. These existing tanks should not be breached but retained as water bodies;
- b) Efforts should be made to ensure that these tanks are not polluted by discharge of effluent and industrial wastes;
- c) Further, to prevent silting up of these tanks, off-shore development is to be taken up by large scale tree planting and also removal of encroachments;
- d) Those tanks which have already been breached should not be utilised for formation of sites but taken up to create tree parks;
- e) Existing tanks should be deweeded and aquatic life must be developed;
- f) The tank areas where there is no atchout are to be handed over to the Forest Department for tree planting. The Forest Department will work out programmes for formation of tree parks/fore shore tree planting and formation of regional parks. We recommend that Government should allocate sufficient finance to the Forest and other Departments for implementing this recommendation.

- g) The Bangalore Development Authority/Bangalore City Corporation/Minor Irrigation Department must immediately remove encroachments on the tank areas;
- h) Government should set up an implementation agency and review the implementation of the recommendations periodically. For this purpose, the Forest Department, Bangalore Development Authority, Bangalore City Corporation Minor Irrigation Department, Bangalore Water Supply and Sewerage Board and Town Planning Department may be involved.
- i) Mosquito control measures are to be entrusted to Bangalore City Corporation or any other suitable agency;
- j) The responsibility for the maintenance of water bodies in clean and safe condition should be by Bangalore Water Supply and Sewerage Board. By proper maintenance of water bodies, it is possible to improve the ground water table, so that there will be scope for tapping ground water through bore wells;
- k) The possibility of construction of more tanks along the natural valleys which now have a run-off water should be examined and implementation taken up.

Whenever a tank has been successfully reclaimed or renovated, a suitable area adjoining the tank may be earmarked for recreational and tourism activities including rest house, restaurant, toilets etc.

- 1) In regard to Sinivagilu Tank bed and Jakkasandra Tank bed, the BDA has stated that they have already formed the layouts, that there has been an investment in this behalf and that the Government have also sanctioned the formation of the layouts. However Government in their Order No.HUD. 794 TTP 85 dated 31.12.85 (Annexure.3) have at the instance of this Committee issued instructions that no layout should be allowed to be formed in tank bed areas either by the BDA or any other body. Since the Committee's approach is based upon the CDP and instructions have already been issued by the Government, Committee does not feel the suggestion of the BDA is acceptable. In this connection, the representative of the Minor Irrigation Department also mentioned that several times development authorities are in the habit of breaching the tanks in the areas taken up for development without even consulting the Minor Irrigation Department.
- The Committee feels that in such cases, invariably the opinion of the Minor Irrigation Department will have to be obtained even when the area in which the tank is located is handed over to the Development Authorities;
- m) The Committee also had occasion to deliberate on what should be done in regard to the abandoned quarry pits in the city. In such quarry pits, water stagnates and causes pollution. These quarry pits may be partly filled and developed as tree parks

with water sheets. This work will have to be undertaken either by the Bangalore City Corporation or the Bangalore Development Authority as the case may be. The Committee wishes to command urgent consideration of the above recommendations.

The Committee wishes to place on record their appreciation of the valuable help received throughout from the Member-Secretary, Dr.R.M.Malavaiah and his staff for collecting all the relevant data required and also for making valuable suggestions to enable the Committee to finalise the report.

N. Lakshmana Rau,
IAS (Rtd).
Chairman.

S,Hanumantha Rao

G.Aswathnarayan

B.G.Channappa

M.A. Parthasarathy

P.D.Geonkar

N.Sampangi

B.N.Thyagarajan

A.C. Anantha Murthy

S,G. Neginhal

P.Venugopal

R.M.Malavaiah.

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ANNEXURE-1.

PROCEEDINGS OF THE GOVERNMENT OF KARNATAKA
(PUBLIC WORKS CAD & ELECY., DEPARTMENT)

Sub:- Preservation, Restoration or otherwise of the existing tanks in the Metropolitan area of the City of Bangalore.

GOVT. ORDER NO. PWD 82 IMB 85 BANGALORE: DATED: THE
26TH JULY 1985

PREAMBLE:

In Bangalore Metropolitan limits, there are several tanks. Some of them are live and some of them are dry. BDA normally first acquires the stchkat portion, Develops them into plots and finally come up with a request to breach the tank and hand over the bed for preparing further layouts etc. It is felt by Government that an Expert Committee should examine the effects of such adhoc actions on the surroundings etc.

Needless to say that one of the uses of water is aesthetics and the nice environment which creates; besides it being a source to improve underground aquifer. There are other sides of problem also like pollution, non-availability of feeder channels etc., Government have, therefore decided it necessary to constitute a Committee of Experts to examine all the aspects and make recommendations for consideration of Government.

ORDER

Government are pleased to accord approval for the constitution of an Expert Committee consisting of the following:-

- 1) Sri.N.Lakshman Rau, IAS (Retd).
Chairman, Local Finance Commission,
9th Floor, V.C.Centre, Bangalore-1. ... Chairman
- 2) Sri.S. Hanumantha Rao,
Chairman, Pollution Control Board, ... Member
Bangalore.
- 3) Sri. K. Anant, ... Member
Engineer - Member,
Bangalore Development Authority,
Bangalore.
- 4) Sri. B.G. Channappa,
Additional Director,
Ground Water Survey, ... Member
Dept. of Mines & Geology, Bangalore.

Annexure - 2

Dis-used tanks located in conurbation limits

Sl. No.	Tanks REG. No.	Name of the Tank	Area in Ha	Location and existing conditions of Tanks	Proposals in C.D.F	Proposals by the Committee	Agency to be entrusted
1	2		4	5	6	7	8

Between Bellary Road and old Madres Road:

1.	357	Shivanahally Tank (Near Yelahanka)	10.00	The tank is located towards east of Yelahanka Tiles & Bricks Factory. The bund is breached to provide a railway bridge. No water is stored in the tank	Partly Park and open spaces partly transport-ation i.e Railway line and Bye-pass Road	To develop tree park in the tank bed.	Forest Department.
2.	345	Kalagondanahally Tank	10.9	The bund is breached. The tank bed is allotted to Dr. Ambedkar Medical College by the Government.	Public & semi-public use i.e. Medical College	Since already disposed. No comments.	-

1	2	3	4	5	6	7	8
5.	293(a)	Eyappanahally Tank	3.23	The Tank is surrounded by approved scheme of B.D.A.	Park and open spaces	Tank bed should be utilised for tree park	Forest Department
	292	Tank towards north of Eyappanahally	-	The area is surrounded by B.D.A. Scheme	Park & Open spaces	To develop tree park	Forest Department
5.	342	Lingarajapura Tank	5.48	Unauthorised developments are existing on the fore-shore area & also in the Atchcut area. The bund is in good condition. The tank is sufficiently deep.	Partly park & open spaces. Partly residential.	Water body can be preserved with foreshore tree planting.	Forest Department.
6.	339	Iyatagutte Ialya tank	1.98	The tank is located in the BDA scheme area and is very small	in It is/developed area	To be developed as tree park.	Forest Department
7.	340	Channasandra tank	15.42	This breached tank is surrounded by BDA scheme. BDA has developed peripheral area, left middle portion as open.	Partly park & open space. Partly transportation i.e 200' Road.	Tank bed has to be preserved	Forest Department.

1	2	3	4	5	6	7	8
8.	305	Channasandra Tank	7.48	The tank is surrounded by BDA scheme. It has small catchment area.	Partly park & open spaces. Partly transportation.	To develop tree park in the tank bed.	Forest Department
<u>Between Old Madras Road and Hosur Road:</u>							
9.	322 (a)	Hudi Tank	5.32	Tank is located north of the village. The bund is breached.	Partly Park & open spaces. Partly transportation.	To develop tree park in the tank bed.	Forest Department
10.	322	Giddanakere Hudi	9.84	The tank is located to the south of Whitefield Road. The atchkat between Whitefield Road and the tank is partly developed for industrial use.	Partly park & open spaces. Partly industrially developed.	To develop tree park in the tank bed.	Forest Department.
11	328	Vijinepura tank	-	The tank is located by the side of the compound of ITI factory. The bund is in good condition. But residential developments have come up in Atchkat area & also northern shore area.	Park and open spaces	To maintain water sheet in the tank & to develop plantation along the shore.	Forest Department.

1	2	3	4	5	6	7	8
12.	308	K.R.Puram tank	9.03	This tank is located south of shandy maidan. Buildings have come up in the atchcut area.	Partly park & open spaces partly residential.	To develop tree park in the tank bed	Forest Department
13.	299	Konena Agrahara tank	6.48	The tank is located towards south of Airport road. The tank is breached. Developments have come up in HAL S.B.Pura.	Residential	To develop tree park in the remaining part of the tank bed.	Forest Department.
14.	297	Kodihally tank	8.05	The tank is located towards north of HAL road and is adjoining HAL II stage layout.	Partly park and open spaces partly residential	Allotted to Space Dept.	-
15.	295	Binnamangala tank	9.68	The tank is surrounded by HAL II stage layout. The tank area is developed by B.D.A.	Park and open spaces.	Tree park to be developed	Forest Dept.
16.	298	Chellaghatta Tank	49.66	The tank is located towards south of HAL road & towards east of Domlur layout. The bund is breached. The tank is being developed as a Golf Course.	Park and open spaces.	The committee has no comments as it is being developed as a Golf Course.	-

17. 288	Srinivagilu tank	21.93	The tank is shutting Koramangala extension. The BDA is trying to form sites in the tank bed. The tank is breached.	Park and open spaces	BDA should stop formation of sites. Govt. have already directed BDA. To develop tree park in the tank	Forest Dept.
18. 279	Maistry-palya tank Jakkasandra	4.53	The tank is breached and is located adjoining Koramangala layout.	BDA has formed layout in a major portion.	To develop tree park in the remaining portion.	Forest Dept.
19. 271	Nainappana Setty Palya Tank	0.84	The tank is located towards north-west of the village. The tank is breached and unauthorised developments have come up.	Part of layout.	Since BDA has got a scheme & the tank is very small the committee concurs with BDA proposals.	-
20. 271 (a)	Tank south-west of Nainappana Setty palya.	2.5	The tank is located towards South-west of village. The bund is in good condition. Some industrial development is coming up in the atchkat area. The tank is small.	Major Road & residential. Another small tank is reserved as park.	To develop tree park in the small tank.	Forest Dept.

1	2	3	4	5	6	7	8
21.	277	Thavare-kere tank	7.10	The tank bund is breached. The atchcut is developed for residential purpose. The tank is located behind Kempson industries towards east.	Park and open spaces	To develop tree park in the tank bed	Forest Dept.
22.	276	Byrasandra tank	10.00	The tank is located towards west of Bannerghatta road & towards north of T. Block Jayanagar. The atchkat is developed with houses. The BCC has put up barbed wire fencing. The tank bund is in good condition.	Partly public & semi-public partly residential.	The Committee decided to maintain water sweet & a park around. Forest Dept. may examine the feasibility of developing the foreshore as a tree park.	Forest Dept.
23.	270	Sarakki tank	0.5	The tank is very small and is located in Sarakki layout.	Developed area, No proposal by part of Sarakki scheme.		
24.	714	Nandi Setta ppa tank	1.94	The tank is located at the foot of Shavige Malleswara hillock near the Dayananda Engineering College.	Park and open spaces.	To develop tree park in the tank bed	Forest Dept.
25.	704	Karisandra tank	0.6	The tank is surrounded by BDA developments	Partly public & semi-public and partly park and open spaces.	Remaining area to be developed as tree park.	Forest Dept.

26.	713	Kadirena-halli Tank	3.87	The tank is located in Banashankari II stage scheme. Govt. has allotted the tank bed to Co-operative Training College.	Public & semi-public	Since already disposed the Committee has no comments.	-
27.	705	Kathri-guppe tank	2.4	The tank is located in BDA scheme area. Road have been developed ahead the tank.	Park and open spaces	Committee recommends to develop Park exclusively.	B.D.A & Forest Dept.
28.	702	Yadiyur tank	6.45	It is located along Kana-pura Road towards north of Yediyur village. Water sheet and a park have already been developed. There is a garden land towards north-east of the tank bed. This is more suitable for extension of park. The Tourist Dept. is developing the tank area.	Watersheet retained/ park & open spaces.	To acquire more area and to develop water sheet park & bird sanctuary.	Tourism Dept. & Forest Dept.
29.	281	Lalbagh tank	12.90	The tank is located inside the premises of Lalbagh & is maintained by Horticulture Dept.	Watersheet retained (inside regional park).	No comments	-

30. 608	Kempambudhi tank	14.84	The Kempambudhi tank is located towards west of Gavipuram Guttahalli. The tank is ill kept by allowing sullage water from east and from south. A swimming pool and a park are developed on the southern side and a tree park in the eastern side. A sizeable water sheet is maintained on the northern side. The tank bund is in good condition. There are historical monuments on the bund and in the surrounding areas. Some encroachments are seen on the northern side.	Park & open spaces	The B.W.S.S.B. to stop flow of sullage. Water front should be developed. The shore areas and the bund areas to be planted with trees. The committee recommends for maintenance of water sheet on the northern side and play ground in the southern side.	Forest Dept. Tourism Dept.
31. 699	Karithimma-nahally tank.	3.87	The tank is located towards western side of Kempambudhi Tank. The bund is in good condition. The bed is available for developments.	Park & open spaces	Recommends for developing ornamental park combining the Kempambudhi tank and Karimnahanahally tank as one unit.	B.D.A & Forest Dept.
32. 682	<u>Between Mysore Road and Tunkur Road:</u> Anche Ramana-kere	3.2	The tank is located towards north of Mysore Road nearer to industrial area.	Park & open spaces.	The committee recommends to develop tree park with flowering trees.	Forest Dept.

1	2	3	4	5	6	7	8
33.	696	Binny Mill Tank	30.37	BCC has filled up the tank bed. There is a proposal to make a wholesale fruit and vegetable market or a lorry parking area	Commercial	No comments	B.C.C.
34.	681	Gangondana-halli tank	0.64	The tank is surrounded by developments. The tank is very small.	Park and Open spaces and road	BDA may develop a park	BDA & Forest Dept.
35.	680	Malagali Tank	3.87	The tank is a small one. The tank is breached.	Partly road and partly residential	To develop tree park in the tank bed.	Forest Dept.
36.	679	Kamekshi-palya tank	-	It is a small tank with standing water. The tank is in good condition. There are encroachments on all sides.	Park and open spaces.	Water sheet may be maintained after removing the encroachments.	Forest Dept.
37.	678	Kurubara-hally tank	-	The tank is already allotted to Police Dept. for construction of staff quarters.	Developed area, Police quarters.	No proposals since disposed.	-

	2	3	4	5	6	7	8
38.	688	Shivanahally tank (Agrahara Dasarahally)	-	The tank has got standing water sullage water is now allowed to enter. Burd is in good condition. The tank is surrounded by BDA layout.	Park and open spaces	Water sheet may be maintained with fore-shore planting.	Forest Dept.
39.	687	Saheguruvannahally tank	-	The tank is breached and roads are formed by BDA on all sides. The bed is vacant.	Park and open spaces	Tree park to be developed in the tank bed.	Forest Dept.
40.	692	Sankey tank	-	The tank was built in 1882 for water supply purposes. The bund is in good condition and there is water in the central part of the bed. A swimming pool is built up on the eastern side & a mini park on the western side. Recently Tourism dept. has introduced Boating facility.	Watersheet on the southern side and public on the northern side.	To develop tree park on the northern and western side & boating facility on the southern side.	Forest Dept. & Tourism Dept.
41.	677	Dassainakere	0.6	The tank is a very small one & is occupied by unauthorised developments BDA has got a scheme called Nardini layout around the tank.	Residential	No comments	B.D.A

1	2	3	4	5	6	7	8
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Between Tumkur road and Bellary road:

2.	347	Geddalahalli tank	10.32	The tank is located in Raja Mahal Villas II stage scheme. The tank is breached. BDA has formed roads on all sides.	Park and open spaces	Committee recommends to develop Tree park	Forest Dept.
3.	348	Chickamera-nahally tank	10.00	The tank is located near Nagashettihalli near R.M.V II stage scheme. In R.M.V. scheme water sheet proposed by BDA. But now it is learnt that the tank bed area is allotted to Space Dept. and Indian Institute of Science and B.D.A.	Park and Civil amenities.	Recommended to form a park wherever it is possible in the bed area.	B.D.A
44.	509	Mallasandra tank	5.0	The tank is located in Jalalahalli area	Within Defence area	Fore-shore Planting	Forest Dept.
45.	507	Jarakbarda Kaval tank	-	The tank is located in unclassified area	-do-	-do-	-do-

1	2	3	4	5	6	7	8
45.	349	Mathikere tank	39.34	The tank is adjoining B.E.L. and H.M.T. Road near Yeshwanthapura, Tank is breached and Atchkat is developed Encorachments are observed in the tank bed. Unauthorised cultivation is observed in tank bed.	Regional Park	Unauthorised cultivation should be removed. The bed should be developed as Regional park with play ground facility.	Forest Dept. and B.C.C.

ABSTRACT:

Tanks with area less than	5 ha.	...	22
Tanks with area between	5 - 10 ha.	...	15
Tanks with area between	11 - 20 ha.	...	5
Tanks with area	20 - & above	...	4
			<hr/> 46 <hr/>

ANNEXURE -3.

Copy of the Govt. letter No. HUD 794 TTP 85 dt.31.12.85 from the Secretary to Government of Karnataka, Housing & Urban Development Department, Bangalore addressed to the Commissioner, BDA and Commissioner, BCC and copied to the Director of Town Planning.

Sub:- Recommendations made by the Experts Committee in the 1st Meeting held on 9.8.85.

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With reference to the above subject, I am directed to state that the Experts Committee took the following decisions for the Preservation, Restoration or otherwise of the existing tanks in the Metropolitan area of Bangalore city.

1. No layout should be allowed to be formed in tank bed areas either by Bangalore Development Authority or any other body.
2. Water sheets should be maintained wherever it is possible and sewerage and other pollution should be suitably diverted so that water should not be polluted.
3. The dried tank beds should be utilised to develop mini-forests.
4. In live tanks, off shore planting between full tank level and MWL contour area.
5. Bangalore Development Authority should not take up formation of sites in tank beds and in Sinivagilu tank bed.
6. As an interim action, Govt. should be addressed that the tank beds should be utilised only for parks, Regional Parks, mini forests, picnic spots and water sheets and on no account the tank beds be allowed to be used for any other purposes.
7. As recommended by the Expert Committee, I request you not to take up the formation of layout and distribution of sites in Sinivagilu Tank bed.

And you are hereby directed to note that the tank beds should be used only for parks, mini-forests, picnic spots and water sheets and on no account the tank beds should be allowed to be used for any other purpose.

sd/-

(H.R. Puttaraju)

Under Secretary to Government,
Housing & Urban Dev. Dept.

ANNEXURE - 4

Proposals for live tanks located in Conurbation area of Bangalore.

Sl. No.	Tank Reg. No.	Name of the tank	Area in ha.	Location and existing conditions of tanks	Proposals in C.D.P.	Proposals by the committee	Agency to be entrusted	
1	2	3	4	5	6	7	8	
		<u>Tanks between Bellary Road and Old Madras Road:</u>						
1.	381 (a)	Amrúthalli tank	9.35	Tank is located towards east of Bellary Road. It has got atchkat.	Park and open spaces.	To develop foreshore area with plantation	Forest Dept.	
2.	354	Nagawara Tank	43.86	The tank is located near Nagawara village. It is in the down stream side of Hebbal tank. It is a big tank. There is scope for Tourism Department to effect some development for tourists.	Park and open spaces.	To develop foreshore planting around the tank bed.	Forest Dept. & Karnataka State Tourism Development Corporation.	
3.	346	Hennur tank	25.80	The tank is located towards west of Hennur village. Water is being polluted by Industrial wastes. This should be stopped.	Portion in the tank is earmarked for park & open spaces.	To develop foreshore planting. The B.W.S.S.B should immediately divert sullage water and industrial waste from the tank.	Forest Dept.	

1	2	3	4	5	6	7	8
4.	343	Kacharakana-halli Tank	22.57	The tank is located towards west of Kacharakanahalli village. There is water pollution which should be immediately diverted by B.W.S.S.B	Part of scheme where residential, industrial & park & open spaces are proposed.	As a decision is taken by Govt. to locate a modern Abbator by BAFCO hence no proposals are made.	-
5.	341	Chellakere Tank	10.32	The tank is located near Chellakere village towards east of Hennur Road.	Park & Open spaces.	It is included in BDA schemes Foreshore planting is recommended and when surrounding area is developed tree park to be developed.	Forest Dept.
6.	330 (a)	Basavanapura-tank	-	The tank is located towards the down stream side of K.R.Puram tank	Park & open Spaces.	To develop tree park when the surrounding area gets developed.	Forest Dept.
7.	330	K.R.Puram Tank	21.78	The tank is located towards north east of K.R.Puram village and is abutting Old Madras Road.	Park & Open spaces where Watersheet is retained.	Foreshore planting and water-sheet to be retained when surrounding area gets developed. Watersheet to be maintained.	Forest Dept. & B.M.S.S.B

1	2	3	4	5	6	7	8
8.	329	Kowdenahalli Tank	18.06	The tank is located towards north of I.T.I.Colony. The bund is in good condition. Some encroachments are seen in the shore area.	Park and open spaces	Foreshore planting & to develop tree park When the surrounding area gets developed.	Forest Dept.
9.	327	Vijinapura Tank	6.45	It is a small tank surrounded by unauthorised constructions.	Park & open spaces	To develop tree park	Forest Dept.
<u>Tanks between Old Madras Road and Hosur Road:</u>							
10.	222	Tank east of Parappena Agrahara	15.65	The tank is located adjoining New Central Jail.	Park & open spaces	Foreshore planting	Forest Dept.
11.	226	Kasavanahalli Tank	17.42	The tank is located near Sarjapura Road.	Park & open spaces	Foreshore planting. To develop tree park when surrounding area gets developed.	Forest Dept.
12.	227	Melinakere Amblipura	19.33	The tank is located near Sarjapura Road and near Agaram.	Park & open spaces	-do-	Forest Dept.
13.	228	Kaikandana-halli Tank	27.09	The tank is located near Sarjapura Road	Park & open spaces	-do-	Forest Dept.
14.	229	Tank east of Haralur	5.16	The tank is located in the interior area south of Sarjapur Road.	Partly Park & open spaces partly green belt.	- do -	Forest Dept.

15.	230	Kelaginakere Amblipura	3.23	The tank is located in the interior area near Sarjapura Road	Park and open spaces	Foreshore planting to develop tree park when the surrounding area gets developed	Forest Dept.
16.	231	Tank east of Ibblur	9.03	The tank is located near Sarjapura Road	Park and open spaces	-do-	Forest Dept.
17.	278	Agaram tank	48.38	The tank is located along Sarjapura Road towards west of Agaram village. The tank is covered with water Hyacinth which requires deweeding immediately.	Park and open spaces	-do- & tourist facilities by K.S.T.D.C.	Forest Dept. & KSTDC
18.	302	Urumundina- kere Vibhuthipura.	14.83	The tank is located in the interior and north of HAL industrial area. There are brick kilns in the tank bed.	Park and open spaces	Foreshore planting to develop tree park when the surrounding area gets developed.	Forest Dept.
19.	303	Melinakere Byrasandra	5.48	The tank is located in the interior area. The atchkat is in good condition.	Park and open spaces	- do -	Forest Dept.
20.	304	Kelaginakere Byrasandra	4.52	The tank is within HAL industrial area.	Industrial use	No proposals	-
21.	306	Tank east of Benniganahalli	20.64	The tank is located adjoining Salem Railway line along Old Madras road and towards east of the village. Atchkat area is developed with some factories.	Park & open spaces	Foreshore planting. Water sheet to be retained.	Forest Dept. & KSTDC

1	2	3	4	5	6	7	8
22.	307	Kaggadasapura Tank	17.74	The tank is located to east of Kaggadasapura near Salem Railway line.	Park & open spaces	Foreshore planting. To develop tree park when the surrounding area gets developed.	Forest Dept.
23.	309	B.Narayanapura Tank	8.06	The tank is located towards south of B.Narayanapura village.	Park & open spaces	-do-	Forest Dept.
24.	310	Tank east of Mahadevapura	-	The tank is a small one adjoining Mahadevapura village	Partly industrial, partly green belt	To develop tree park	Forest Dept.
25.	312	Tank west of Doddanakundi	47.08	The tank is adjoining Doddanakundi village near Salem Railway line.	Park & open spaces	Foreshore planting, to develop tree park when the surrounding area gets developed.	Forest Dept.
26.	313	Chanappana halli tanks (3 tanks)	11.13	The tanks are located near Varthur Road to the north of village.	Regional park	To develop as Regional park	Forest Dept.
27.	315	Kundalahalli tank	10.48	The tank is located near road connecting Varthur Road and Whitefield Road, Some developments are seen in the Atchkat area.	Park & open spaces	To develop as tree park	Forest Dept.
28.	325	Dyavesandra Tank	5.81	The tank is located adjoining Madras Railway line to the north of Whitefield Road	Park & open spaces	To develop as tree park	Forest Dept.

2	3	4	5	6	7	8	
22.	237	Shingasandra Tank	0.6	The tank is located near Hosur road near Shingasandra village.	Park & Open spaces	To develop as tree park	Forest Dept.
30.	237(a)	Garebhavi palya tank	9.03	The tank is located along Hosur Road	Park and open spaces	To develop as tree park	Forest Dept.
31.	237(b)	Tank south of Mangamma-napalya	5.23	The tank is located along Hosur Road.	Park and open spaces	To develop as tree park	Forest Dept.
<u>Tanks between Hosur Road and Mysore Road.</u>							
32.	275	Madivala Tank	114.16	The tank is within BTM scheme of BDA. This is a major tank with standing water. The atchkat is proposed for development in BTM scheme	Park & open spaces, water sheet re-tained.	Foreshore planting. Watersheet to be preserved. Tourist facilities may be provided by KSTDC.	Forest Dept. & KSTDC
33.	238	Kodagikere Shingasandra	8.71	The tank is located near Shingasandra village along Hosur Road.	Park and open spaces.	Foreshore planting. To develop tree park when the surrounding area gets developed.	Forest Dept.
34.	771	Alahalli Tank	6.13	The tank is located in the interior area near Alahalli and west of Bannerghatta Road.	Residential details not worked out.	To develop tree park.	Forest Dept.
35.	768	Subberayanakere Doddakalasangra	1.13	The tank is located in the interior and is a small one.	-do-	To develop as tree park.	Forest Dept.

	2	3	4	5	6	7	8
36.	767	Mechikore Doddakala- sandra	8.87	The tank is located near industrial area along Kanakapura Road (towards east)	Park & open spaces	Foreshore planting to develop tree park when the surr- ounding area gets developed.	Forest Dept.
37.	269	Konenakunte tank	3.71	The tank is located near industrial area along Kanakapura Road.	Park & open spaces	To develop as tree park	Forest Dept.
38.	268	Chunchughatta tank	8.23	The tank is located near Regional park between Kanakapura Road and Banner- ghatta Road.	Park & open spaces.	To develop as Regional park with water sheet.	Forest Dept.
39.	267	Kothnur tank	6.78	The tank is located near the Regional park between Kanakapura Road and Banner- ghatta Road.	Park & open spaces.	Foreshore planting, to develop tree park when the surrounding area gets developed.	Forest Dept.
40.	265	Tank south of Bilakanahalli	4.53	The tank is located along Bannerghatta road and is a small one. Developments have come up towards south of the tank, near proposed Regional park.	Park & open spaces.	To develop tree park.	Forest Dept.
41.	264	Tank between Hulimavu & Arakere	15.16	The tank is located between Hulimavu & Arakere and is abutting Bannerghatta Road There is a huge rock cave to- wards south of the tank.	Park & open spaces.	Foreshore planting. Watersheet to be retained.	Forest Dept.

	2	3	4	5	6	7	8
42.	273	Tank north of Doresanipalya	20.64	The tank is located towards west of Bannerghatta Road and south of Sarakki layout. The tank bund is in good condition. There are a few developments in the atchkat area.	Park & open spaces	Foreshore planting watershed to be re-tained.	Forest Dept.
43.	722	Kasimkhananand-keré Gubial.	6.08	The tank is located towards north of Gubial village along Subramanyapura village Road.	Park & open spaces	Foreshore planting. To develop tree park when the surrounding area gets developed.	Forest Dept.
44.	721	Venkappanakere Uttarahalli	7.10	The tank is located near Uttarahalli village	Park and open spaces	Foreshore planting. To develop tree park when the surrounding area gets developed.	Forest Dept.
45.	720	Dorekere Uttarahalli	11.61	-do-	-do-	-do-	Forest Dept.
46.	718	Janardhanakere Vasanthapura	2.58	The tank is located towards east of Vasanthapura. The tank is a small one.	Park and open spaces	To develop tree park	Forest Dept.
47.	717	Annappanakere	2.90	The tank is located near Yelchenahalli along Kanakapura Road. The tank is a small one.	Part of layout.	To develop tree park.	Forest Dept.

1	2	3	4	5	6	7	8
48.	715	Govindanai-kana kere Jaraganahalli	32.25	The tank is located towards east of Jaraganahalli and has got approach road from Kanakapura Road	Park & open spaces	Foreshore planting watersheet to be retained	Forest Dept. & B W.S.S.B
49.	712	Mogakere Uttarahalli	7.10	The tank is located near Uttarahalli and along Uttarahalli-Kengeri Road	Park & open spaces	Foreshore planting. To develop tree park when the surrounding area gets developed	Forest Dept
50.	708	Doddakere Hosakere-halli	23.22	The tank is located near Hosakerehalli village adjoining Banashankari III stage layout.	Regional park	Regional park and watersheet	Forest Dept.
51.	706	Chickkala-sandra Tank	5.16	The tank is located near Banashankari III stage layout.	Park & open space	To develop tree park	Forest Dept.
52.	707	Ittamadu Tank	3.46	The tank is located near Banashankari III stage layout.	Park and open spaces	To develop park with tree planting	Forest Dept.
53.	723	Mylesandra Tank (2 tanks)	11.94	The tanks are located in the interior and south of Kengeri	Park & open spaces	Foreshore planting. To develop tree park when the surrounding area gets developed.	Forest Dept.

1	2	3	4	5	6	7	8
62.	674	Koleginakere Valgerahalli	10.81	The tank is located in the interior near Kengeri Satellite town.	Park and open spaces	Foreshore planting. Watersheet to be maintained	Forest Dept. & BWSB
63.	673 (a)	Tank west of Megarbnavi	3.55	The tank is located near Bangalore University Campus	Park and open spaces	To develop watersheet and tourist facilities by K.S.T.D.C	Forest Dept. & KSTDC
64.	675	Bovi Basappa Kore Malath- halli	27.10	The tank is located towards west of Bangalore University campus & near Malathhalli	Park & open spaces Watersheet retained	Foreshore planting. Watersheet to be retained & tourist facilities by KSTDC	Forest Dept. & KSTDC
65.	672 (a)	Srigandhakaval tank	Less than 1 Ha.	The tank is located towards south of Magadi Road and is a small one.	Park and open spaces.	Foreshore planting	Forest Dept
66.	683 (a)	Tank north west of Nayandahalli	4.52	The tank is located towards north west of Nayandahalli and near Pantharepalya along Mysore Road.	Park & open spaces.	Foreshore planting. To develop tree park when the surrounding area gets developed.	Forest Dept.
67.	683	Halekere Nayandahalli	5.80	The tank is located near Pantharepalya & Nayandahalli Railway station.	Park & open spaces. Watersheet retained.	-do-	Forest Dept.

1	2	3	4	5	6	7	8
68.	521	Narasappanakere Kari-Obanahalli	-	The tank is located in the interior, south of Tumkur road and near Nallakadrenahalli	Park and open spaces	To develop tree park	Forest Dept.
69.	520	Hosakere Nallakadrenahalli	9.34	The tank is located in the interior, south of Tumkur Road and near Nallakadrenahalli	Park of residential layout	Foreshore planting. To develop tree park when the surrounding area gets developed.	Forest Dept.
70.	519	Halekere Nallakadrenahalli	3.07	The tank is located in the interior, south of Tumkur Road and near Nallakadrenahalli	Part of residential zone.	To develop tree park in the tank bed and proposed park in the layout.	Forest Dept. & proposed R.D.A.
71.	514	Chokkasandra tank	10.65	The tank is located towards south of Dasarahalli	Park & open spaces	Foreshore planting. Watersheet to be retained.	Forest Dept.
72.	543	Doddakere Bagalkunte	9.36	The tank is located towards west of Bagalkunte.	Residential zone details not shown	Foreshore planting. Watersheet to be retained. Park to be enforced in the layout by BDA.	Forest Dept. & B.D.A.

73.	510	Chickbana- vara Tank	30.38	The tank is located towards east of Chickbanavara	Partly park & partly green belt.	Foreshore planting Watersheet to be retained. Tourist facilities by KSTDC	Forest Dept. & KSTDC
74.	550	Karasipura Tank	4.52	The tank is on the east of Jalahalli	Park & open space	To develop tree park.	Forest Dept.
75.	551	Pinnala tank	3.87	The tank is located in the interior	Park & open spaces. Regional park.	Foreshore planting Watersheet to be retained.	Forest Dept.
76.	552	Doddabomma- sandra tank	46.44	The tank is located in the interior	Regional park	Regional park	Forest Dept.
77.	508	Karagondan- halli tank	11.29	The tank is located near Tumkur railway line and towards west of HMT ancillary industries	Part of residential zone. Details not shown	Foreshore planting. To develop tree park when the surrounding area gets developed	Forest Dept.
78.	457	Chickbettana- lli Tank	4.60	The tank is located towards north of Chickbettahalli	Residential zone. Details not shown	Foreshore planting Watersheet to be retained. Park to be enforced by BDA in layout.	Forest Dept. & BDA
79.	353	Hebbal tank	64.50	The tank is a live tank located along Bellary Road. The water is covered with hyacinth and is used for irrigation purposes. The Forest Dept. has developed a good Nursery on the southern side.	Regional park	Regional park & foreshore planting. Removal of encroachments & water hyacinth by Minor Irrigation Dept. Tourist facilities by K.S.T.D.C.	Forest Dept. & KSTDC & Minor Irrigation Dept.

1	2	3	4	5	6	7	8
80.	356	Gramdakere Allalasaundra	17.42	The tank is located towards south of Yelahanka Satellite Town.	Park & open spaces. Water sheet retained	Foreshore planting. Watersheet to be retained. Tourist facilities by KSTDC	Forest Dept. & KSTDC
81.	361	Puttonahalli tank	8.87	The tank is located towards north of Yelahanka Satellite town and along Doddaballapura Road.	Park and open spaces.	Foreshore planting to develop tree park when the surrounding area gets developed. To develop picnic spot by KSTDC	Forest Dept. & KSTDC

ABSTRACT :

Tanks with area less than 10 ha	49
Tanks with area between 11 & 20 ha.	16
Tanks with area between 21 & 50 ha.	14
Tanks with area more than 50 ha.	2
Total:	81

A N N E X U R E - 5

Tanks coming within the Green Belt Area of
Bangalore:

TALUK WISE ABSTRACT:

Sl. No.	Name of Taluk	No. of Tanke
1.	Bangalore North	61
2.	Bangalore South	98
3	Hoskote	23
4.	Anekal	44
5.	Magadi	11
6.	Nelamangala	13
7.	Devanahalli	12
Total:		262

Annexure -5: Tanks within Green Belt

Sl. No.	Tank No.	Name of Tank.	Extent in Hects.
A. <u>BETWEEN BELLARY ROAD AND MADRAS ROAD:</u>			
(a) <u>Bangalore South Taluk:</u>			
1.	381	Rachenahalli Tank	60.0
2.	383	Kalkere Kere	75.0
3.	336	Vallencrukere or Chickore/Kalkere	80.0
4.	337	Gramadakere Horamavu	19.2
5.	338	Gramadakere Horamavu Agara	54.4
(b) <u>Bangalore North Taluk:</u>			
6.	-	Palahalli Tank	8.0
7.	375	Kogilu Tank	180.0
8.	386	Thirumalenahalli Tank	4.0
9.	377	Gramadakere Chokkanahalli	3.6
10.	378	Agrahara tank	6.4
11.	379	Jakkur Mowjikere	50.0
12.	380	Venkateshapura tank	2.8
13.	384	Bettahalli tank	3.2
(c) <u>Devanahalli Taluk:</u>			
14.	-	Dasanayakanahalli tank	2.0
15.	-	Chagalatti tank	4.0
16.	-	Sathanur tank	1.5
17.	-	Byappanahalli tank	2.0
18.	-	Kattiganahalli tank	2.5
19.	-	Hunasamaranahalli tank	3.0
(d) <u>Hoskote taluk:</u>			
20.	385	Kannur tank	25.6
21.	386	Yarappanahalli Tank	<u>6.9</u>

1	2	3	4
	(a)	<u>Hoskote Taluk (contd.)</u>	
22.	387	Gubbi tank	53.0
23.	388	Amanikere Huvina and	36.0
24.	-	Ramapura tank	5.0
25.	391	Baiyappanahalli tank	20.0
26.	392	Bidarahalli Tank	36.4
27.	393	Cheemasandra tank	13.2
28.	1	Nimmakayipura tank	7.6
29.	331	Hosakatte Bidrahalli	1.0
30.	334	Chowdammanakere, Kithgannur	11.2
31.	335	Jink Thimannahalli Tank Varanasi	4.0
32.	332	Bhatrahalli Tank	10.0
33.	382	Kodagi Kere-Byarati (near Geddalalahalli)	9.6
	B.	<u>Between Madras Road and Hosur Road:</u>	
		(a) <u>Bangalore South Taluk:</u>	
34.	139	Govinda Settikere Konappa- Agrahara.	4.0
35.	-	Tank North-East of Konappa- Agrahara	2.5
36.	142	Bollakere, Biratena Agrahara	20.0
37.	143	Biderkere, Amanikere	36.0
38.	225	Haralur Tank	5.0
39.	232	Bendekere, Haralkunte	6.8
40.	223	Muniakana Saraikere Haralukunte	6.8
41.	234	Channasettikere Haralkunte	0.8
42.	235	Mangamma Palyadakere, Yellakunte.	3.2

1	2	3	4
43.	220	Junnasandra tank	0.25
44.	221	<u>Doddakere Chikkanahalli</u>	247.2
45.	-	Tank West of Kodathi	4.0
46.	205	Dyavarakere Sullikunte	5.2
47.	206	Pasalreddikere Sulikunte	88.8
48.	207	Doddakere (Kodatti)	31.6
49.	208	Mullur Tank	15.2
50.	209	Moralikere, Gunjur	30.4
51.	210	Hosakere, Gunjur	3.6
52.	211	Doddakere, Gunjur	14.8
53.	212	Palyadakere, Pannathur	2.8
54.	213	Boganahalli Tank	4.8
55.	214	Boganahalli Ane	1.2
56.	215	Uramundinakere, Panathur	10.0
57.	216	Kodagikere, Devarabisanahalli	40.2
58.	217	Haralkere, Doddakannelli	23.2
59.	301	<u>Amanikere, Belandur</u>	360.0 (5.37)
60.	314	Tank east of Channapanahalli	4.53
61.	316	Mowjikere, Siddapura	1.6
62.	317	Amanikere, Varthur	180.4
63.	318	Agraharakere, Pattandur	2.8
64.	319	Kodagikere, Nallurhalli	17.2
65.	320	Shivaranthakere, Hadagur	8.0
66.	204	Mowjikere, Gunjur	25.6
67.	203	Mowjikere, Kenchamaranahalli	5.2
68.	321	Sonnenahalli Tank	3.0
69.	323	Sadaramangala Tank	7.5

£ 1	2	3	4
69.	323	Sadaramangala Tank	7.5
70.	(323)	Sigehalli tank	5.0
		(b) <u>Anekal Taluk:</u>	
71.	196	RayasandraHakere	30.0
72.	197	Banammanakere, Gattahalli	29.2
73.	199	Chokkasandra tank	6.4
74.	200	Harohalli tank	5.2
75.	201	Huskur tank	39.2
76.	202	Kaggalipura tank	5.6
77.	260	Choodasandra tank	8.0
78.	227	Hosahalli tank	7.2
79.	204	Gulimangala Hosakunte	3.75
80.	204(a)	Chikkanagamangala tank	1.2
81.	-	Gottamanahalli tank	8.0
82.	-	Sigena Agrahara tank	40.0
83.	200	Chikkanakundi tank	5.0
84.	248	Kodagikere, Kathriguppe	11.2
85.	-	Ramanayakanahalli tank	5.0
86.	-	Ramanayakanahalli tank	4.0
87.	196	Halasanahalli, Thippasandra tank.	1.5
88.	193	Heggondanahalli tank(Jodikunte)	4.0
89.	203	Heggondanahalli tank	3.5
90.	232	Parasetti Basammanakere, Thigol Chowdenahalli	13.2
91.	230	Kodagikere, Dommasandra	10.0
		(c) <u>Hoskote Taluk:</u>	
92.	394	Avalahalli tank	14.4
93.	395	Mallappasettikere, Veeramahalli.	110.0

1	2	3	4
94.	396	Chikkanaganahalli tank, Bidere Agrahara.	8.0
95.	397	Chikbanahalli tank	4.0
96.	398	Mulikere, Kannamangala	7.2
97.	399	Subbasettikere, Kondasapura	2.0
98.	400	Katum Nallur Tank	5.6
99.	6	Doddagattiganabbe tank	20.0
100.	-	Koraluru tank	-
		<u>C. Between Hosur Road and Mysore Road:</u>	
		<u>(a) Bangalore South Tank:</u>	
101	-	Chudenapura tank	5.5
102	724	Gangachottikere Chudenapura	4.4
103	-	Hemmigepura tank	3.5
104	725	Hemmigepura tank	9.6
105	726	Veerammanakere Shompura	3.2
106.	759	Talaghatapura tank	3.0
107.	760	Tank north of Nagegowdanapalya	0.8
108.	761	Tank South of Tatguri estate	3.0
109.	762	Saludoddi tank	1.5
110.	733	Badamanavartha Kaval tank (North of Agara)	2.0
111.	734	-do- (South of Agara)	2.0
112.	-	K.Gollahalli tank (2 tanks)	4.0
113.	-	Devagere tank	2.5
114.	-	Venkatapura tank	3.0
115.	765	U.M.K.Tank(South of Mallasandra)	-
116.	766	Mallasandra tank	0.5
117.	769	Thippasandra tank	0.8
118.	-	Tank North East of Agara	-
119.	772	Gollahalli tank	3.0

1	2	3	4
120.	773	Kothnur Tank	3.5
121.	259	Basavanapura K.Tank (Urumundinakere)	3.2
122.	261	Gottigere Tank (Subrayanakere)	2.0
123.	262	Kalena Agrahara Tank (Mowjikere)	3.2
124.	257	Tank South of Kamanahalli	6.80
125.	258	Tank east of Kammanahalli	5.67
126.	260	Tank South of Kammanahalli	14.98
127.	-	Vaderahalli tank (Dinnepalya tank)	3.0
128.	263	Urumundinakere Hulimavu	50.0
129.	251	Mylasandra tank (Chowthagadakere)	46.8
130.	252	Subedaranakere Begur Chandrashekarapura	18.4
131.	256	Nachanapalyadakere, Begur Chandrashekarapura	2.8
132.	255	Subbainkere, Yelenahalli	2.0
133.	253	Agraharadakere Beguru	165.0
134.	254	Doddakere, Begur	46.58
135.	239	Naganaikanakere, Begur	12.96
136.	240	Dinne Subrayanakere, Begur	-
137.	241	Venkatappanaikanakere, Begur	4.45
138.	242	Basapura Chikkere	2.0
139.	245	Urumundinakere, Vittasandra	7.6
140.	246	Gendekere Mylasandra	6.0
141.	140	Doddathogur tank (Haromanekere)	5.0
142.	-	Doddathogur tank	-
143.	141	Kodagikere Doddathogur	8.0
144.	105	Hosakunte Bettadasanapura	2.8

1	2	3	4
145.	106	Bandekere, Bettadasanapura	0.8
146.	107	Bettadasanapura tank (Govindanakunte)	0.4
147.	156	(b) <u>Anekal Taluk:</u> Kempanaikannahallikere (Bannerghatta)	2.0
148.	166	Venkatappanakere, Bilwaradahalli	4.0
149.	178	Ramagowdanakere, Gollahalli	2.4
150.	140	Addiganakere, Mantapa	3.6
151.	141	Urumundina Doddakere, Mantapa	17.2
152.	157	Kariyappannahallikere, Bannerghatta	9.6
153.	146	Bandikere Vaderahalli	1.0
154.	147	Kodagikere, Sakalawara	9.2
155.	148	Amanikere, Bhujangadasanakere	25.2
156.	-	Mantapa tank	8.0
157.	-	Boginahalli tank	15.0
158.	180	Hosakere Bingipura	6.0
159.	181	Hongekere, Hullahalli	0.8
160.	182	Matadakere, Hullahalli	13.6
161.	154	Doddakere, Hulimangala	26.80
162.	155	Urumundinakere, Nanjapura	7.2
163.	71	Uramundinakere Vabasandra	3.6
164.	-	Margondanahalli Tank	6.0
165.	-	Shikaripalya tank (2 tanks)	3.0
166.	-	Gollahalli tank	5.0
167.	-	Hebgodi tank	8.0
168.	-	Veerasandra tank	3.0
169.	-	Veerasandra tank	2.5

1	2	3	4
		D. <u>Between Mysore Road and Tumkur Road:</u>	
		(a) <u>Bangalore North Taluk:</u>	
170.	515	Doddabiderkal tank	18.4
171.	522	Lingadeeranahalli, Hosakere	2.4
172.	522(a)	Harohalli tank	6.7
173.	522(b)	Lingadeeranahalli, Halekere	2.0
174.	622	Sigehalli tank	2.4
175.	663	Subbainakere, Kodagihalli	4.8
176.	664	Venkappanakere, Kodagihalli	3.6
177.	665	Kannahalli tank	28.0
178.	666	Rampura tank	3.0
179.	667	Manganahalli tank (Breached)	-
180.	668	Manganahalli tank Marenayakanahalli	1.6
181.	670.	Hullalu tank	4.0
182.	671	Herohally tank	16.20
183.	672	Thothakere, Herohalli	-
		(b) <u>Nelamangala Taluk:</u>	
184.	279	Linganakatte Harokyathanahalli	7.6
185.	289	Devagowdanakatte, Adikamaranahalli	0.4
186.	516	Madavara tank	24.0
187.	523	Gangondanahalli tank	15.0
188.	524	Lakkenahalli tank	5.6
189.	525	Macholli tank Chikhere	12.8
190.	526	Doddakere Machohalli	20.9
191.	527	Bayandahalli tank	4.0

1	2	3	4
		(c) <u>Bangalore South Taluk</u>	
192.	661	Kenchanapura tank	3.0
193.	-	Ramasandra Urumundinakere	3.0
194.	-	Ramasandra tank	30.0
195.	669	Kamghatta Urumundinakere	15.0
196.	660	Bettahalli tank	8.0
197.	-	Maragondanahalli tank	1.0
198.	-	Bheemanakuppe tank	12.0
199.	-	Ramchalli tank	12.0
200.	-	Kamblipura tank	4.0
201.	-	Kanaminike tank	3.0
		(d) <u>Magadi taluk:</u>	
202.	638	Gowdanakere Kolar	3.6
203.	639	Hosakere Kolar	9.6
204.	640	Narasimhapurakatte (Kethohalli)	1.3
205.	641	Chikkanakere Kethohalli	2.0
206.	642	Settarkatte, Kethohalli	0.8
207.	643	Mogokere, Kethohalli	1.7
208.	648	Chikkolur tank	4.8
209.	531	Naganakere Chennenahalli	3.0
210.	654	Makalikatte, Yalachiguppe	2.4
211.	658	Bairegowdanakere Yalachiguppe	2.4
212.	659	Shamanmanakere, Yalachiguppe	6.86
		E. <u>Tanks between Tumkur Road and Bellary Road:</u>	
		(a) <u>Devanahalli Taluk:</u>	
213.	N.A.	Bettahalasur tank	12.5
214.	N.A.	Thimmasandra tank	15.0

1	2	3	4
215	N.A.	Nellukunte tank	10.0
216	N.A.	Thimmanahalli tank	8.0
217	N.A.	Sugatta tank	15.0
218.	N.A.	Sonnappanahalli tank	20.0
(b) <u>Bangalore North Taluk:</u>			
219	475	Urumundinakere, Ittagalpara	20.4
220.	476	Jodi Rama swamykere, Ittagalpara	8.0
221.	477	Urumundinakere, Madappanahalli	6.4
222.	480	Linganahalli tank	7.2
223	482	Kalenahalli tank (Breached)	-
224.	483	Madappanahalli tank (Private)	6.4
225.	484	Sorekai kunta kere, Mylappanahalli	5.6
226.	485	Urumundinakere, Mylappanahalli	8.4
227.	486	Mavalipura tank (Breached)	-
228.	487	Urumundinakere, Bylakere	7.2
229.	488	Urumundinakere, Byalakere	7.2
230.	489	Karubanshallikere-Mavalipura (breached)	-
231.	490	Seekote tank	16.0
232.	491	Iwarukandapura tank	41.6
233.	492	Devarakere, Kasagattapura	3.0
234.	493	Mallikere, Huralichikkanahalli	9.2
235.	494	Urumundinakere, Kasagattapura	5.2
236.	495	Kumbarahalli tank	14.0
237.	496	Hongekere, Vaderahalli	2.0
238.	497	Medi Agrahara tank (Breached)	-
239.	499	Tubinakere, Kalathammanahalli	5.2
240.	500	Urumundinakere, Guri Agrahara	4.0

1	2	3	4
241.	501	Urumundinakere, Kalathammana-halli (Breached)	-
242.	502	Talekere, Guri Agrahara	2.0
243.	503	Kodagikere, Ganigarahalli	7.6
244.	504	Laxmipura tank	4.0
245.	505	Gowdanakere, Singapura	8.0
246.	506	Abbigere tank	8.0
247.	358	Kodagi Amanikere, Veerasagara (Breached)	-
248.	359	Gramadakere, Ramagondanahalli	15.6
249.	360	Attur tank	30.0
250.	362	Avalahallikodagikere, Krishnasagara	5.6
251.	363	Mowjikere or Rastekere, Avalahalli.	5.2
252.	364	Honnenahalli tank	3.9
253.	367	Karehallikere, Laxmisagara	6.1
254.	368	Amanikere, Singanikanahalli	178.0
255.	371	Gantiganahalli tank	30.4
256.	372	Yelahanka Doddakere	80.0
257.	301	Bilijaji tank	14.8
		(c) <u>Nelamangala Taluk:</u>	
258.	511	Jalikkatte, Kudargere (Breached)	-
259.	512	Venkappanakere Hanumanthanagara	2.4
260.	284	Dasanapura tank	18.8
261.	290	Heggadadevanapura	8.0
262.	299	Alur tank	29.6

Annexure - 6.

List of survey numbers and villages situated in the area earmarked for Regional Parks in the Comprehensive Development Plan of Bangalore finally approved by the Government in the Government order dated 12.10.1984.

Regional Park - I:

Area: 271 Ha.

1. Bhoopasandra Villages:
Full survey Nos. 48,49, 50, 51, 52, 53, 54, 55
Part S. No. 47, 56.
2. Nagashettyhalli:
Full S.No. 42
Part S.No. 58
3. Lottegollahalli:
Full S. No. Nil
Part S. No. 10
4. Kodigehalli:
Full S.Nos. 21 to 28, 37, 41, 42, 43, 51, 52, 53,
54, 55, 62 to 71, 72, 73, 94 to 103, 111 to 114,
116, 123 to 126, 171, 173, 175, 220, 221, 223.
Part S.Nos. 27, 44, 50, 153 to 157, 168, 169, 180, 181.
5. Tinnalu:
Full S.No. 53
Part S.Nos. 51, 52, 55, 56, 57, 68, 69.
6. Doddabommasandra:
Full S. No. 56
Part S. No. Nil

Regional Park - II:

Area: 410 Ha.

1. Hosakerehalli:
Full S.Nos. 4 to 15, 25 to 75, 78 to 82, 87, 126 to 129.
Part S.Nos. 2, 3, 16, 17, 24, 76, 77, 83 to 86, 88 to 91.

2. Banthalapalya:

Full S.Nos. 9 to 13, 21 to 23, 26 to 74, 91
Part S.Nos. 14, 15, 20, 24, 25, 95 to 93, 100

3. Arehalli:

Full S. Nos. 24 to 28
Part S. Nos. 29, 30, 32 to 34, 39

4. Halagevaderahalli:

Full S.Nos. 65, 139
Part S.Nos. //140, 179, 183 //138

5. Voddarapalya:

Full S. Nos. 31, 33, 34, 35
Part S. Nos. 36, 37, ,

Regional Park III:

Area: 180 Ha.

1. Kothanur:

Full S.Nos. 9 to 12, 47 to 58, 62 to 74, 100 to
105, 127 to 146, 149 to 153.
Part S.Nos. 39, 45, 46, 59, 60, 61, 75 to 79, 113,
114, 117, 122, 124.

2. Chunchaghatta:

Full S.Nos. 1 to 11, 13 to 21, 24 to 26, 48 to 57
72 to 74, 78.
Part S.Nos. 22, 24, 27, 30, 32, 70.

Regional Park IV:

Area: 95 Ha.

1. Channappanahalli:

Full S.Nos. 15 to 21, 23 to 25
Part S. Nos. -nil-

2. Doddanakkundi:

Full S. Nos. 15, 16, 26, 78 to 86, 91, 93, 94

Part S. Nos. 15, 17, 18, 87 to 90, 92, 96, 98.

3. Kundarahalli:

Full S. Nos. 126, 135

Part S. No. Nil

Regional Park - V: Area 102 Ha.

1. Yeshwanthapur:

Full S. Nos. 103, 107 to 117

Part S. No. -Nil-

2. Mathikere:

Full S. Nos. ~~58~~, 60 to 83, 85, 86

Part S. No. Nil

3. Thannirahalli:

Full S. Nos. 1 to 4, 20, 21, 26, 27, 28

Part S.No. Nil

4. Jalahalli:

Full S. Nos. 30 to 41

Part S. No. -nil-

ANNEXURE - 7

Proceedings of the Government of Karnataka

Subject: Creation of Green Belt Division in
Bangalore-Creation of certain posts under the
scheme-regarding.

Read: Correspondence ending with letter No.B9,GED.
CB52/81-82 of the Chief Conservator of Forests
(General) Bangalore.

...

Preamble:

The Chief Conservator of Forests (gl)Bangalore in his letter read above had sent a revised scheme to Government for the creation of a Green Belt in and around Bangalore to a radius of 50 kms. in stages for a period of five years. It is stated by the Chief Conservator of Forests (General) that the Forest Department would take up a massive tree planting programme in and around Bangalore and within a period of five years all available space for planting in Bangalore would be planted up.

It is intended to tackle lands incharge of the Forest Department and also C&D class of lands transferred to this Department. It is also intended to raise plantations departmentally in areas incharge of Public undertakings like H.A.L., H.M.T.etc., The identification of areas will necessarily require approaching various departments and public sector undertakings, and getting the areas available and thereafter drawing up the schemes. Therefore, the Chief Conservator of Forests (General) has requested to sanction the scheme for the creation of a Green Belt Division in Bangalore at an estimated cost of Rs.1,90,25,000/-

over a period of five years and also to sanction the staff required for implementing the schemes as detailed below:

1. Deputy Conservator of Forests:	1
2. Asst. Conservator of Forests:	1
3. Range Forest Officers:	5
4. Foresters:	8
5. Surveyor-cum-Draughtsman:	1
6. Forest guard:	30
7. Superintendent Grade:II.	1
8. First Division Clerk:	2
9. Second Division Clerk:	4
10. Typist:	2
11. Jeep Driver:	1
12. Peon.:	3

It is also proposed to buy a jeep with a trailer at a cost of Rs. One lakh.

Order No. FFD 171 FAP 81 Bangalore dated the 27th July, 1982.

..

Government after careful examination of the proposals of the Chief Conservator of Forest (G1) are pleased to accord sanction for the creation of the posts mentioned below for a period of one year towards the creation of Green Belt in and around Bangalore.

1. Deputy Conservator of Forests:	One
2. Range Forest Officers:	Two
3. Foresters:	Four
4. Surveyor-cum-Draughtsman:	One
5. Forests guards:	Eighteen
6. Superintendent Grade:II.	One
7. First Division Clerk:	One

8. Second Division Clerk	One
9. Typist:	One
10. Jeep Driver:	One
11. Peons:	Two

Sanction is also accorded to purchase a jeep with a trailer/at a cost of Rs.1 lakh (Rupees one lakh).

The expenditure may be debitable to the budget head "318 Forests & Plantation Scheme C State Sector Scheme XVII - Centrally sponsored scheme of social forestry" during 1982-83.

This order issued with the concurrence of Planning Department and Finance Department vide their U.O.No. FD.568.IOF/81 dated 27.1.1982 and FD/O.1074/Exp.V/82 dated 28.6.1982 respectively.

By Order and in the name of the
Governor of Karnataka

Sd/-

(N. Radha Bai)

Under Secretary to Government,
Food & Forest Department.