PARADIGM SHIFT IN THE ANATOMY AND PHYSIOLOGY OF SARAKKI LAKE, J.P NAGAR

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Introduction

Process of irreversible change since 2000 post urbanization

PAST

- MAN MADE LONG SEASONAL LAKE
- NAME SAVIRA HAKKI
- 3. PART OF 5 REV VILLAGES
- SARAKKI VILLAGE- AGRI [Vokkaliga]
- JARAGANAHALLI Mixed farm/Business [Kshatriya]
- CHUNCHAGATTA Labourers [Gudigara]
- KOTHANUR Sheep rearing [Kuruba]
- PUTTENAHALLI- Mango/coconut
 Diary [Vokkaliga, Golla]

PRESENT

- 1. REENGINEERED TREATED WATER LAKE
- 2. SARAKKI, JARAGANAHALLI, PUTTENAHALLI
- 3. URBAN AREA OF J P NAGAR
- Only 5% original habitants Mostly Professional class I

SARAKKI LAKE - GEOGRAPHY

- AT HEAD OF K C VALLEY
- U/S TO CHUNCHAGATTA LAKE [22 Acre 31 G] KOTHANUR[18-09] ANNAMMANA KERE 7-32 KONANAKUNTE[9-18] ALL UNDER REJUVENATION AND CONNECTED BY ENCROACHED/DEFUNCT RAJAKALUVES
- D/S LINGANAHALLI [56 A-36G] NOW CONVERTED IN TO J P NAGAR DOLLARS COLONY, MARENAHALLI KERE [21-22] LAYOUT, SCHOOL AND CLUB, SARAKKI AGRAHARA[2-20] SCHOOL
- D/S RAJAKALUVE IS FULLY BLOCKED/ENCROACHED TO CARRY OVERFLOW WATER TO MADIVALA AND AGARA LAKES
- PIPELINES AND PUMPING FACILITIES OF 18 MLD INSTALLED AT SARAKKI LAKE @RS 20 CRORES

PURPOSES OF THE LAKE

Past	Present
•WATER SECURITY TO THE 5 VILLAGERS	•WATER SECURITY TO GROWING POPULATION
•50% USED FOR AGRICULTURE AND HORTICULTURE	•ONLY 40% MET FROM KAVERI, REST FROM GROUND WATER
•25% FOR CATTLE	•CLIMATE MODERATION/FLOOD CONTROL
 25% FOR DRINKING AND DOMESTIC USES 	

ANATOMICAL FEATURES

Past	Present
CATCHMENT AREA 5.62 SQ KMS	FULLY CONCRETISED, LOST HYDRO FUNCTIONS
LAKE AREA 32.82 Ha[200 encroachments]	ENCROACHMENTS REMOVED
WATER SPREAD 21.39 Ha	OVER 3 LAKH CU MT SLUDGE/SILT REMOVED
SHORE LINE 3.8KM	RESTORED FOR 3KM WALKING TRACK[FENCED]
SHORE WITH NATURAL SLOPE	SHORES/BUNDS FORMED WITH STONE LINING
MAXM DEPTH 3.8 MTRS[SLUDGE FILLED]	5.9 MTRS TO NATURAL BED
EXISTING STORAGE 5.5LAKH CUM	9.4 OR 68% INCREASE
FLOOD PLAINS[buffer] 15.6 Acres	DESIGNED 10 ACRE WET LANDS INSIDE LAKE AREA
CLEAN RAIN WATER 50-60 DAYS	SCANTY RAIN WATER MIXED WITH SEWAGE 18MLD
POPULATION ABOUT 2000	OVER 1 LAKH
OVER 200 CATTLE AND 10 SHEEP HERDS	NEGLEGIBLE

HYDROLOGICAL &ECOLOGICAL CONDITIONS

Past	Present
GROUND WATER DEPTH 20-50 FT	400-600 FT
MANGOGROVES, MEADOWS, TREES	PROPOSED NATIVE TREE PARK ON THE SHORE
BIRDS NATIVE AND MIGRATORY	DESIGNED BIRD SANCTUARY
FISH YIELD APPROX 50 TONNES P.A	MATSYA LOKA TO BE ESTABLISHED

CITIZENS' VISION [2019 AND BEYOND]

- FULLY RESTORED FENCED 82 ACRE LAKE WITH BLUE WATER, RETURN OF COLOURFUL 1000 BIRDS, FULL OF AQUATIC LIFE, CLEAN AIR WITH A 3 KM LONG WALKING, JOGGING TRACK, CHILDRENS PLAY AREA, KALYANI
- FULLY PROTECTED FROM ENTRY OF SEWAGE, THROUGH NETWORK OF UGD AND SWDS WITH 18 MLD PUMPING STATION, WETLANDS HAVING SILT TRAPS AND TREATMENT PONDS. THE LAKE WILL BE RECHARGED WITH TREATED WATER FROM 5 MLD STP AND ALL OPERATIONS WILL BE MADE ECO FRIENDLY AND COST EFFECTIVE FROM SOLAR POWER SYSTEMS.
- SUSTAINED CITIZEN PARTICIPATION BY SLAIT, 100 STRONG VOLUNTEER CORPS, TWO LAKE WARDENS, NEIGHBOURHOOD SCHOOLS AND COLLEGES, PARTICULARLY FROM ENGG STUDENTS
- THIS IS THE RECENT STORY OF PROTECTING SARAKKI LAKE FROM TOTAL DESTRUCTION, RESTORATION OF THE WATERBODY AND PRESERVATION OF ITS ECOSYSTEM BY GOVT AGENCIES WITH PEOPLES PARTICIPATION.