



MISSION AMRIT SAROVAR – JAL DHAROHAR SANRAKSHAN INTERNSHIP

Institute Name: PUSA INSTITUTE OF TECHNOLOGY

Water Body Name: Water Channel at Old Lodi Bridge (Athpula)

INO Name: Tushar Dev

Period of Report: 18/07/2022– 22/07/2022



Targets Set for the Week -3

- 1. AUTOCAD MAPPING OF WATER BODY AND SURROUNDING AREAS**

- 2. TO MEET THE ULB (NDMC) OFFICIALS AND CONCERNED REJUVENATION AGENCIES TO KNOW ABOUT THE CURRENT EFFORTS BEING UNDERTAKEN FOR WATER BODY REJUVENATION**

- 3. TO INVESTIGATE THE PURPOSE OF WATER BODY**

- 4. TO DETERMINE THE MODES OF RECHARGE AND RE-CIRCULATION OF WATER OF THE WATER BODY**

- 5. TO DETERMINE THE CHEMICAL TREATMENT DONE/Required ON THE WATER BODY**



OUTCOMES AND OBSERVATIONS

- **COMPLETED THE AUTOCAD MAPPING OF THE WATER CHANNEL AND SURROUNDINGS IN 2D.**
- **WE MET THE NDMC OFFICIAL MR. PRANAV TIWARI (JUNIOR ENGINEER) NDMC AND DISCUSSED ABOUT THE ONGOING REJUVENATION WORKS FOR THE CHANNEL AND THE UPCOMING ONES.**
- **WE INVESTIGATED ABOUT THE MAJOR PURPOSE OF WATER BODY BY THE CARETAKERS WORKING THEIR AND TALKED TO THEM.**
- **WATER WAS MAJORLY STAYING THERE AND PRONE TO STAGNATION BUT STILL WE TRIED TO FIND OUT THE MODEE OF RE CIRCULATION AND RECHARGE.**
- **ENZYMATIC TREAMENTS MAJORLY DONE AS CHEMICAL TREATMENTS.**

AUTOCAD MAPPING OF THE WATER CHANNEL AND SURROUNDING



PURPOSE OF WATER

BODY

AS WE HAVE DISCUSSED AND INVESTIGATED YET THE WATER BODY IS MAJORLY USED FOR FOLLOWING PURPOSES.

1. THE WATER BODY IS USED FOR PLANTATION MAINLY AND TO PROVIDE PROPER REQUIRED MOISTURE TO THE PLANTS.
2. IT PROVIDE A PROPER WHOLE SOME HABITAT TO THE AQUATIC LIFE AS THE OXYGEN IS IN REFERRED QUANTITY.
3. AS A DUCK HOUSE SITUATED NEAR IT PROVIDE WATER NEEDS TO THEM LIKE FOR DRINKING AND BATHING ETC.







DISCUSSION WITH THE **NDMC OFFICIAL.**

- **ON 19/07/2022 WE MET JUNIOR ENGINEER (NDMC) MR. PRANAV TRIPATHI AT KHAN MARKET.**
- **HE TOLD US ABOUT THE REJUVENATION AND FILTRATION PROCESSES GOING ON.**
- **HE HAVE A BROAD VIEW ABOUT THE TOTAL PROCESS OF FILTRATION**
- **HE SAID THAT SEDIMENTATION IS DONE ITSELF IN CHANNEL.**




- **AERATION IS DONE BY THE HELP OF  FOUNTAINS.**
- **HE HAD ALSO INFORMED US ABOUT THAT ENZYMATIC/BIOREMEDIATION WORK BEING UNDERTAKEN BY THE AGENCY AND WATER TREATMENT PLANT OF 15KL CAPACITY BEING USED TO FILTER THE WATER. **

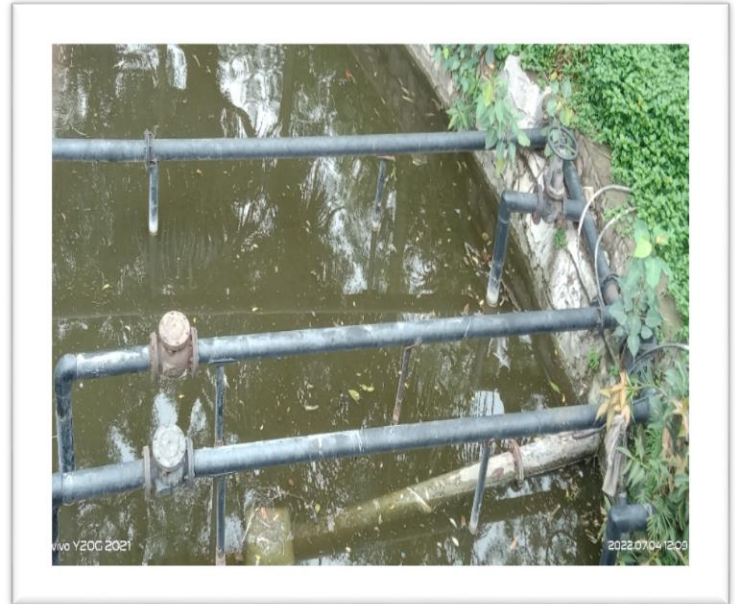


MODES OF RE- CIRCULATION

AND RECHARGE :-

- IF WE TALK ABOUT THE CIRCULATION WE MUST TALK ABOUT THE STAGNATION.
- STAGNATION IS MAJORLY THERE IN THE WATER BODY  AS THE UNWANTED WEEDS ARE NOT ALLOWING THE WATER TO FLOW
- FOUNTAINS ARE MAIN SOURCE OF CIRCULATION OF WATER.
- THE MODES OF RECHARGE IS PURELY NATURAL i.e. RAINWATER.
- LATERAL RAIN WATER HARVESTING SHAFTS ARE BUILT AT THE END AND THE BEGINNING OF THE WATER BODY WITH STONE FILTER FOR

ADEQUATE FILTERING AND RAINWATER PERCOLATING IN GROUND WATER THAT ULTIMATELY JOIN THE CHANNEL.



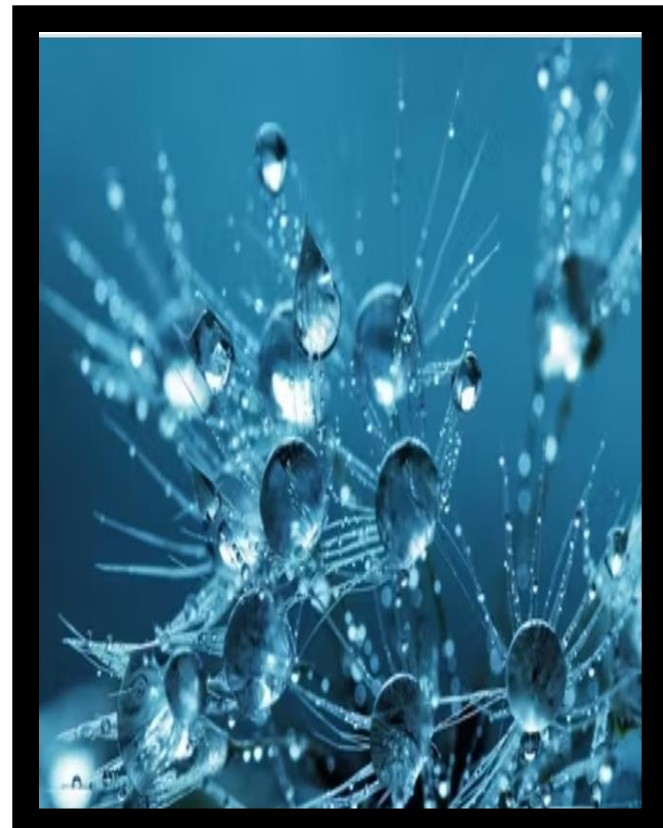


CHEMICAL TREATMENT DONE /CAN BE DONE ON THE WATER BODY

- ENZYMATIC TREATMENT IS BEING UNDERTAKEN TO REDUCE THE BOD without affecting the ecosystem.
- WE RECOMMEND THAT CuSO_4 TREATMENT CAN BE DONE TO REDUCE THE PRESENCE OF ALGAE WHICH CAN REDUCE THE ODOUR

AND CAN BECOME A MORE BETTER PLACE FOR THE TOURISTS.

- **CHLORINATION CAN ALSO BE DONE.**





MEDICINAL GARDEN

NEAR WATER BODY

- A MEDICINAL GARDEN IS ALSO SETTED UP IN SOME AQUIRED LAND NEAR THE WATER BODY AT LODHI GARDEN
- IT CONSIST OF PLANTS LIKE TULSI, EUCALPTUS, ALOE VERA, AND MANY MORE.
- IT'S A VERY BEAUTIFUL THING TO EXPLORE AND A VERY GOOD TOURIST ATTRACTION ALSO.

PHOTOGRAPH GIVING RELEVANT INFORMATION ABOUT MEDICINAL GARDEN



NEW DELHI MUNICIPAL COUNCIL Herbal Garden हर्बल गार्डन

S. NO.	BOTANICAL NAME	COMMON NAME	हिंदी नाम	USED IN	S. NO.	BOTANICAL NAME	COMMON NAME	हिंदी नाम	USED IN
11.	DISCOCOREA BULBOSEA	VARAHI KAND	सापही कन्द	DYSENTERY, ABDOMINAL PAIN, PILES, SKIN DISEASE, IMPROVES HEARING.	47.	GEMMUM KASCISTH	GAUR FULBI	सीते तुलसी	INFECTIOUS BILHARIA, FETTER, ASTHMA, UROGENITAL DISORDER, VOMITING, EAR ACHES, DIABETES, ANTI BACTERIAL, ANTI TUBERCULOSIS, LEUCODERMA, HI COUGH.
32.	ECLIPSA ALBA	BHINDU RAJ	पीपल	JANUICULAR TENDONITIS, THICKENING OF HAIR, LIVER TROUBLE, HYPERTENSION.	48.	PHYLLANTHUS NIBCHI	BHUN AGALA	भुई आलु	DIOPHY, URINARY DISEASE, DIARRHEA, SKIN DISEASE, ULCERS, COUGH, ASTHMA.
33.	EMBLICA OFFICINALIS	AONLA	आमल	HEMORRHOID, DIARRHEA, HEAD ACHES, JAUNDICE, ECZEMA, HYPERALGIA, SKELETAL SYSTEM.	49.	PIDAL LANGUM	PEEPLI	पीपली	DIAGNOSTIC SYSTEM, APPETIZER, BRONCHITIS, COLIC, ANTI BOTOX.
34.	GONDIKUNSA VELGARDI	KALA BANSA	काला बंस		50.	FELMBAGO ZEYLANICA	SWEET CITRUS	मीठे सित्रस	APETIZER, ANTI BACTERIAL, ANTI CANCER.
35.	GLOBOSA SUPERBA	KALBHARI	कलीभारी	FEVER, RHEUMATISM, TUMORS, LEPROSY, SWELLING, RHEUMATISM.	51.	PUNICA GRANATUM	ANAR	अमर	DIARRHEA, DYSENTERY, BLEEDING GUMS, LIVER ANEMIA, GASTRIC DISORDER.
36.	GYNERIUM JYVIBRE	GUDMAR	गुडमर	DIABETES, COUGH, ASTHMA, INCREASES INULIN IN BLOOD, OXIDIZES GLUCOSE.	52.	KUMUDIKHA SERPENTINA	SARIPANDBA	सरीपण्ड	HYPERTENSION, INDOMINA.
37.	HIBISCUS ROSA SINENS	GUDHAL	गुडहल	FEVER, RUGULE, RELAXANT, ANTI BACTERIAL, ANTI FUNGAL, ANTI VIRAL.	53.	STEVIA REBAUDIANA	STEVIA	स्टीविया	DIAGNOSTIC SYSTEM.
38.	LAWSONIA INERIS (MELANI)	MEHDI	मेहदी	HEADACHE, ULCERS, STOMATITIS, SCABIES, CORNEAL LEPROSY, VARIOUS SKIN DISEASES.	54.	TERMINALIA ARJUNA	ARJUN	अर्जुन	HEART & LIVER DISEASE, CARDIOVASCULAR SYSTEM, TUBERCULOSIS, COUGH FEVER, ULCER.
39.	MENTHA PERFRATA	PEPPERMINT	पेपरमिंट	VOMITING, TOOTHACHE, NERVE PAIN, HEADACHE, COLIC, PARALYSIS, HYSTERIA.	55.	TINDIPORA CORIOPHORA	GILOV, GULUCHI	गिलोव	SKIN DISEASE, GOUT, ARTERITIS, PILES, URINARY CALCULI, ANTI ALLERGIC, LEPROSY.
40.	MENTHA SPICATA	PEERINA	पीरिना	ANTI FERTILITY, ANTI OVULATORY, GASTRO INTESTINAL DISORDERS, ANTI BACTERIAL, COUGH, COLIC, CHRONIC FEVER.	56.	VITEX NEGUNDO	NIRLINDI	निरलुंडी	ACUTE RHEUMATISM, COLIC, FEVER, PAIN, LEPROSY, ULCER, HEAVINESS OF HEAD, COLIC, ASTHMA.
41.	MIMOSA PUBICA	LADAWANTI	लदवण्टी	HEMORRHOIDIC DISEASE, DIARRHEA, GYNERIUM, SKIN DISEASE, RINIS, FISTULA, URINARY COMPLAINTS, COUGH.	57.	WITILANIA MOSHIFERA	ABHIVAGANDBA	अभिवण्ड	FEVER, PAINFUL SWELLING, NEUROLOGICAL DISORDER, RESPIRATORY SYSTEM, INDOMINA.
42.	MURRAYA KOENIGII	MITHI NEEM, KARU FATTA	मीठी नीम, करु फाटा	DIARRHEA, PILES, RELIEVES RHEUM, PAIN, LEUCODERMA, BLOOD DISORDERS.					
43.	NYCTANTHES ARBORETRIS	BAAR HINGAR	भार शूंगर	DYSENTERY, ULCER, BANDLETTA, CHRONIC FEVER, COUGH, ASTHMA, CIRCULATORY SYSTEM.					
44.	OCCIMUM BASHILICUM	KAPOOR TULSI	कापूर तुलसी	DYSENTERY, CHRONIC DIARRHEA, ANTI FUNGAL, COUGH, INSERIGATION, ECZEMA, SNAKE VENOM.					
45.	OCCIMUM CANEM SINENS	VAN TULSI	वन तुलसी	MALARIA FEVER, TUBERCULOSIS, DIABETES, ASTHMA, UROGENITAL DISEASE.					
46.	OCCIMUM CRATTIDHUM	RAM TULSI	राम तुलसी	FEVER, COUGH, LEUCODERMA, HEART & LIVER TONIC, PARALYSIS.					



New Delhi, Delhi, India

H6RC+M68 Herbal Garden Lodhi Park, Lodhi Gardens,
Lodhi Estate, New Delhi, Delhi 110003, India

Lat 28.591896°

Long 77.220165°

13/07/22 12:53 PM





THIS WEEK'S WATER LEVEL
VARIATION DATA

<u>DAY</u>	<u>WATER LEVEL</u>
MONDAY :-	2.14 FEET
TUESDAY:-	2.16 FEET
WEDNESDAY:-	2 FEET
THURSDAY:-	2.10 FEET
FRIDAY :-	2.12 FEET



WE TAKING MEASUREMENTS




TARGETS SET FOR NEXT WEEK

(WEEK -4)

- **CONDUCT THE WATER PARAMETER TESTS OF BOD , DO AND TURBIDITY AND SUGGEST TREATMENTS WHICH CAN BE DONE IN CASE PERMISSIBLE PARAMETERS EXCEEDED**
- **BRAINSTORMING □ AND GROUP DISCUSSION TO COME UP WITH A VIABLE IDEA OF POSTER MAKING.**
- **TO MAKE A RECOMMENDATION REPORT FOR SPECIFIC TREATMENT TO MAKE WATERBODY A BETTER RECREATION SPOT . RECOMMENDATION WILL BE FOR THE WATER BODY AND ALSO FOR IT'S SURROUNDING STRUCTRE AND A PUBLIC OPINION IS ALSO TAKEN FOR THE SAME.**



- **PLOT A TIME V/S WATER LEVEL VARIATION  GRAPH TO FIND OUT THE WATER LEVEL VARIATION OF THE WATER BODY.**
- **SUGGEST ANY CHANGES OR UPSCALING OF THE CAPACITY OF THE TREATMENT PLANT BEING USED BY NDMC.**



OUR GROUP MEMBERS





THANK

YOU.....