BEFORE THE HON'BLE NATIONAL GREEN

TRIBUNAL SOUTHERN ZONE BENCH AT CHENNAI

Original Application No.150 of 2022

(Under Section 14 & 15 (b) & (c) r/w

Section 18(1) & (2) of the National Green Tribunal Act 2010)

INTHEMATTER OF:

Sri.S.R.Ganesh

& three others ...Applicants

-Vs-

The Chief Secretary,
Government of
Karnataka,
& two others ...Respondents

INDEX OF SALIENT FEARURES FILED BY THE 3RD RESPONDENT

S.I No.	Date	Description	Pg. No
1.	11.05.2024	Salient Features of Rakhasa Halla, compiled by Sri. B.S.Prahalad Engineer in Chief, BBMP having his office at Corporation building, N.R. Square, Bangalore - 560002	1 - 14

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BRUHAT BENGALURU MAHANAGARA PALIKE

Detailed Technical Report on

NGT case No.OA 150/2022 (SZ)

About Drains BBMP jurisdiction

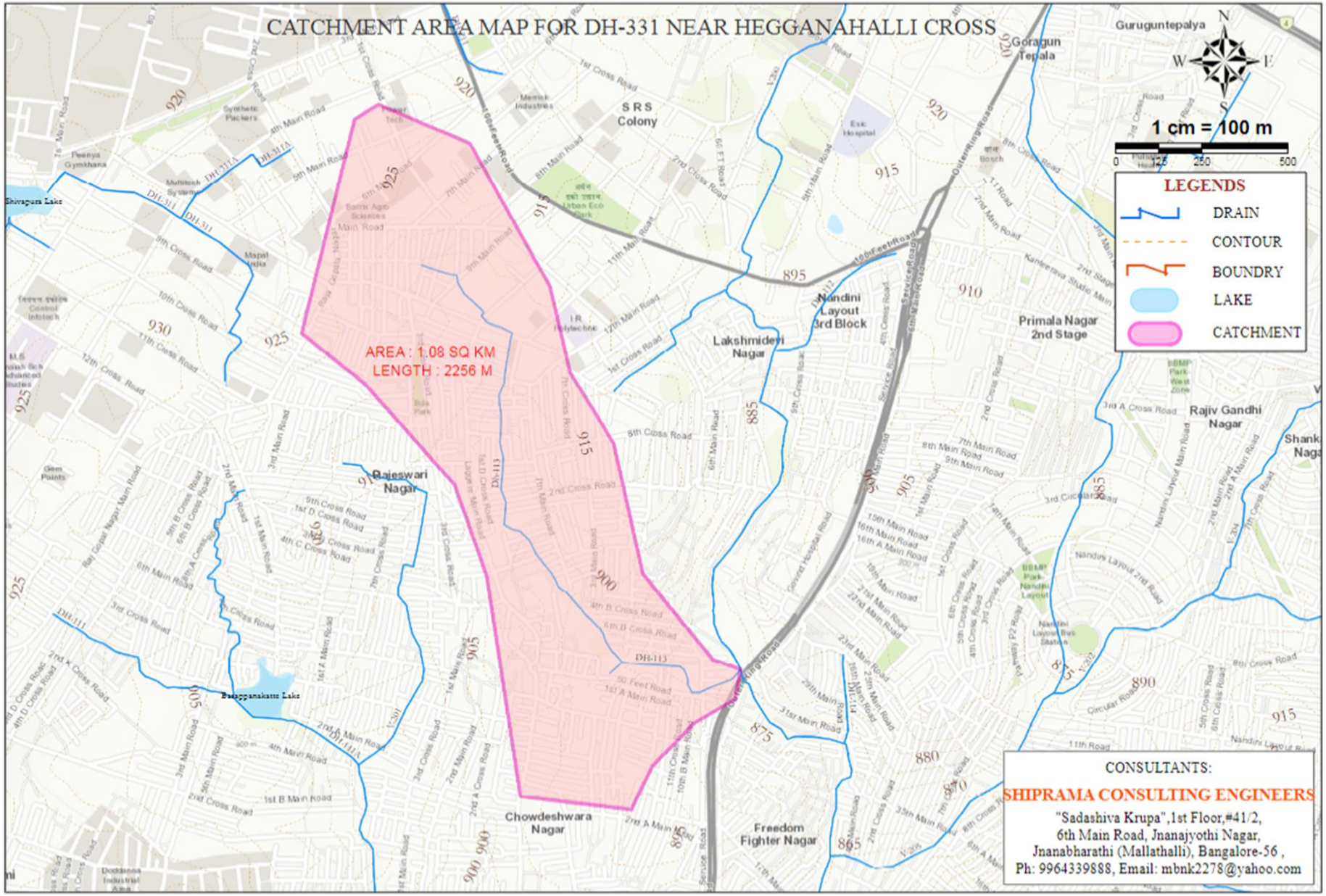
- Bruhat Bengaluru Mahanagara Palike is situated at 770mtrs to 950mtrs above mean sea level.
- It receives an average rainfall of 970mm annually managed by 04 valleys (Major Watershed areas) and 665 Micro Watershed areas with Storm water drain network of 860 kms.
- The SWD is geo-graphically mapped and each of the SWD is given an unique identity number based on its nature.
- Based on the unique identity numbers of the SWD, the flood prone areas are recognized and flood mitigation works are carried out.

DH-113

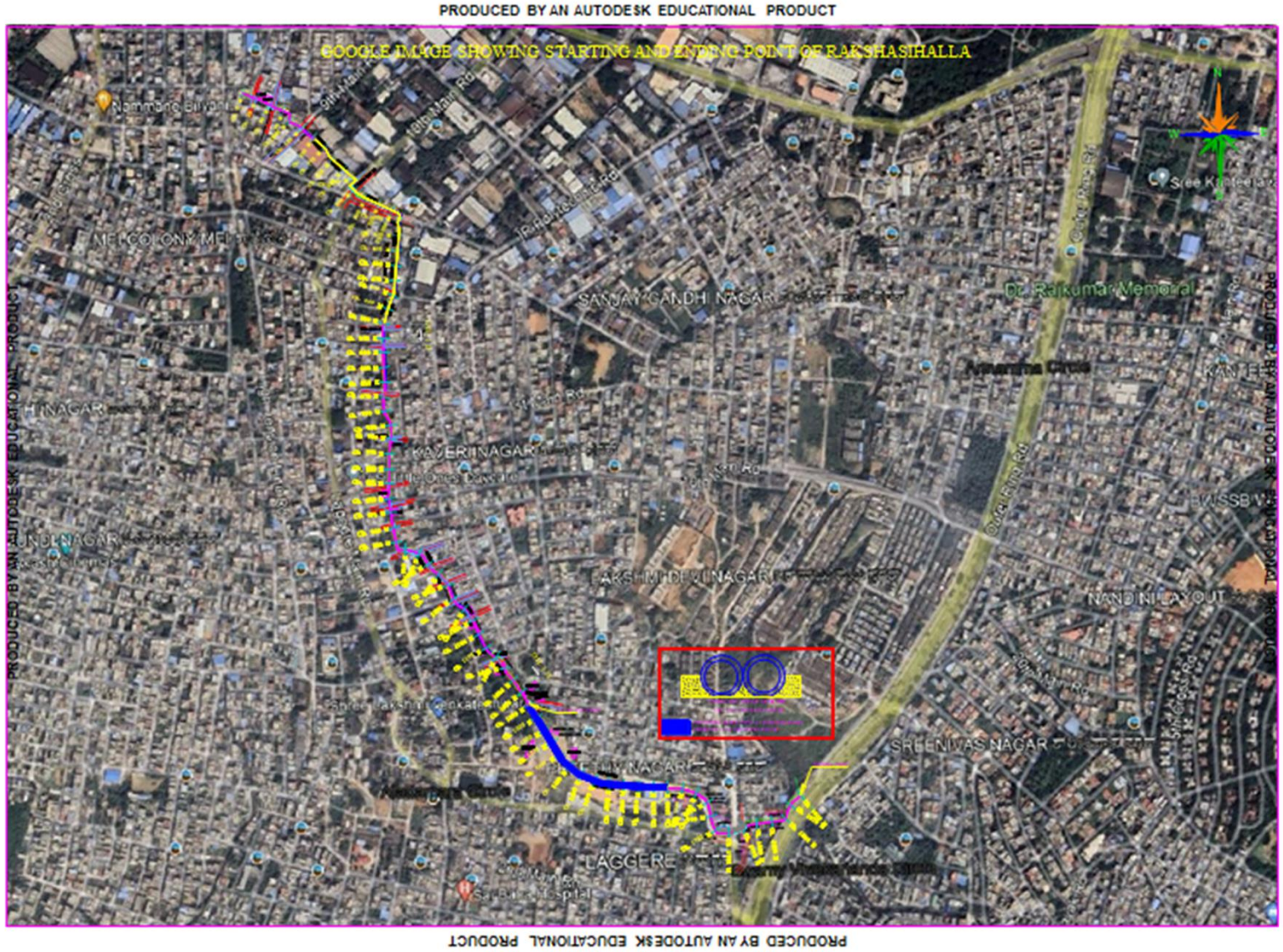
- In the present case The storm water drain in question flowing at Rakshashi Halla is a tertiary drain with unique identity number as DH-113.
- The length of the drain is 2256 meters and is originating at a ridge point of Dasarahalli zone and flowing towards Rajarajeshwari nagara zone and connecting Vrishbhavthi V200 drain.
- The drain developed as below:

Chainage	Length	Remarks
Ch 0m to 1656m	1656m	open nala with retaining walls on either side
Ch 1656 to 1956m	300m	Hume pipe drain (the Rakshashi Halla and the subject in question)
Ch 1956m to 2126	170m	Box Drain
Ch 2126m to 2151m	25m	Bridge Structure
Ch 2151 to 2256m	105m	open nala joining V200 with retaining walls on either side

Top sheet of DH113



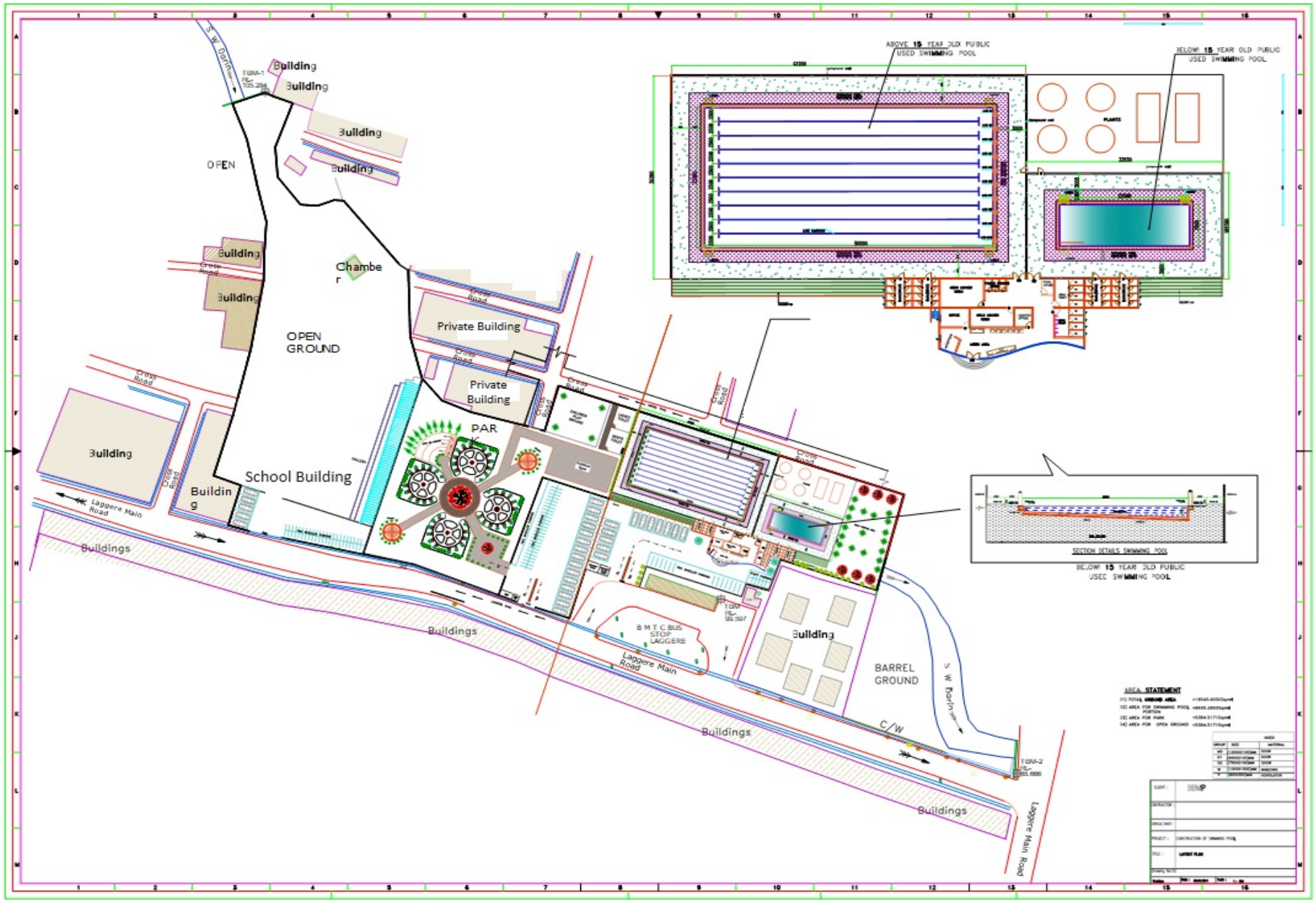
Alingment Drawing of DH 113



Discharge calculations

- Total Catchment area -1.08 sqkms
- 5 year return period (Urban Areas) at 70mm – the discharge capacity is 15.71 Cumecs
- Discharge capacity of 2 pipes of 2.40m dia is 28.71 Cumecs
- Maximum discharge capacity of 2 pipes can go upto 125mm per hour in the catchment area.

Schematic Drawing showing the location of Swimming Pool, Park, School building and Open Ground



- As could be seen from the alignment drawing the Rakshashi Halla starts at Ch 1656m to 2256m having a total area of 18545.60 Sq mts (4 acres 26 guntas)

Area statement

- Area for Swimming pool- 1250.00 Sqmts
- Area for Park - 5384.51 Sqmts
- Area for Open ground - 5384.51 Sqmts
- Area for school building - 1670.00 Sqmts

Photographs showing the existing structures in Rakshashi halla area

- As per the directions issued vide order dated:15.03.2024, it is humbly submitted that, public infrastructure works have come up in the Rakshashi halla area in the length of 300mtrs and in the area of 18545.60 Sq.mtr.s.
- Now, there is a open area of 5384.51 Sq.mtrs left out after deducting the area of school and swimming pool.
- The BBMP now proposes to construct Rain Water Harvesting structures like the Temple Kalyani as part of park development to replenish the water table.
- 25 nos of rain water harvesting structures / pits will be constructed at the periphery of the school ground to replenish the water table.
- Roof top water collection structures in the form of water sump will be constructed along side of school building and the rain water would be planned to utilize for school purpose.

The BBMP has started to redevelop the shallow aquifers by rejuvenation of old erstwhile open wells. This activity will carried out intensively in the catchment area of DH113

Well - 1 filled with garbage, Avalahalli lake (Diameter: 11 feet; Depth: 23 feet)

Before intervention

During well rejuvenation

After well rejuvenation

Dimension -11x23ft
Water level - Water at 14ft bgl
Water used for - Water is used by the local community for non portable purposes
Water available in the well - 24000 liter
Static Volume - 62000 liter
Recovery time - 24-48 hrs

Typical Temple Kalyani Structure

Typical rain water harvesting structures / pits

Before intervention

During well digging

After completion

Dimension - 4 x25 ft
Water level - Water at 15ft bgl
Water used for - New open well was dug. Water will be used in the garden and also pumped to the sump tank
Water available in the well - 3500 liter
Static Volume - 8000 liter
Recovery time - 24-48 hrs

It is prayed that our humble submission may kindly be accepted

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