

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE BENCH, CHENNAI
ORIGINAL APPLICATION NO. 191/2024**

IN THE MATTER OF:

Yelahanka - Puttenahalli Lake and
Bird Conservation Trust (Regd)

...APPLICANT

VERSUS

State of Karnataka and Others

...RESPONDENTS

INDEX

S. No.	Document	Pages
1.	Progress Report on behalf of Respondent No. 6 (BWSSB)	1-6
2.	<u>Annexure R-1</u> Detailed sketch of the Proposed Sewer Network of Balaji Layout, Duo Marvel Layout, Ramanashri California Garden Layout, Ananthpura Village and Byatarayanapura Zones in 110 Village Areas	7

Filed by



Darpan KM
Advocate, Supreme Court of India
LGF, K-6, Lajpat Nagar – III
New Delhi 110 024
darpan.advocate@gmail.com | +91 98991 25060

Date: 13.07.2026
Place: New Delhi

**BEFORE THE NATIONAL GREEN TRIBUNAL
SOUTHERN ZONE BENCH, CHENNAI
ORIGINAL APPLICATION NO. 191/2024**

IN THE MATTER OF:

Yelahanka - Puttenahalli Lake and
Bird Conservation Trust (Regd)

...Applicant

VERSUS

State of Karnataka and Others

...Respondents

PROGRESS REPORT ON BEHALF OF RESPONDENT NO. 6 (BWSSB)

MOST RESPECTFULLY SHOWETH:

1. The instant report is being filed to place on record the progress with respect to works being carried out by the answering Respondent in the instant Original Application as well as in compliance of the direction contained in the order dated 16.04.2026, wherein it was directed as follows:

“4. Hence, we direct all the respondent authorities, including the private respondents, to file individual affidavits in this regard, along with a map showing how the drainage is being connected from each point and the length covered at each stage before it reaches the STP.

5. Additionally, the BWSSB shall state whether the drainage presently being constructed, which appears to consist only of hume pipes, has the requisite carrying capacity to accommodate the load generated by the residents of Respondent Nos.9 and 10, comprising more than 3,000 families.”

2. It is thus submitted in this regard as follows:


Chief Engineer (Innovative Projects, R & D)
Bangalore Water Supply and
Sewerage Board, Bengaluru - 560 009

3. **Re: Particulars of the Pipelines and Carrying Capacity** – It is submitted that a major part of Puttenahalli Lake catchment area comes under CMC limits of Yelehanka CMC and remaining portion is in 110 villages within the limits of BBMP, Ramagondanahalli Village and its catchment (coming under Panchayath limit) and Shivaram Karanth (BDA) Layout. Currently, there is tremendous growth of population in and around the Puttenahalli catchment areas.
4. Due to this substantial growth of the locality and to cater the needs of this population, infrastructure such as water supply and sewage networks are essential. BWSSB had taken up the work of laying laterals under the assistance of Government of Karnataka as well as BWSSB funds. As per the GFC drawings, the laterals in the Ananthapura village coming under 110 village limits of BBMP were laid excluding few newly developed and missed out areas. Further, the missed-out areas of UGD laterals works will be taken up in phase 2 project under the assistance of World Bank.
5. In addition to this, under the assistance of JICA (Japan International Cooperation Agency), BWSSB has already taken up construction of 7 MLD WwTP and laying Sub mains and trunk sewers in upstream catchment of Attur lake which is under progress and would help in convey of sewage for treatment at the Attur WwTP under construction located in the downstream catchment.


Chief Engineer (Innovative Projects, R & D)
Bangalore Water Supply and
Sewerage Board, Bengaluru - 560 009

6. A major part of Puttenahalli lake catchment comes under Yelahanka CMC limits and the sewage generated in the catchment area is conveyed and treated in the existing 6 MLD Puttenahalli WwTP (Functioning at its maximum capacity). The 2 MLD sewage from the Ananthapura Village coming under 110 village will be conveyed through the ISPS located in the premises of existing Puttenahalli WwTP to the already functioning 10 MLD Allalasandra WwTP.
7. As per the original scope of the said project, sewage from the remaining portion of Ananthapura Village (110 Villages) area is proposed to lead off through the lateral UGD pipelines already laid in the catchment area which in-turn connects to the proposed Sub-Mains in Attur lake bund along the buffer zone of Storm Water Drain (SWD) up to Century Commanders Vista apartment, thereby providing Lifting Machine hole (Civil work for which is completed and electro-mechanical erections are pending) at the Cross Road junction of Century Commanders Vista Apartment towards newly established machine hole near Duo Marvel Layout in the Ananthapura Main Road connecting to the proposed 6 MLD Yelahankakere WwTP.
8. Further, a report was filed by BWSSB, regarding the work of laying 700mm dia RCC trunk sewer for a length of 600 m with details as


Chief Engineer (Innovative Projects, R & D)
Bangalore Water Supply and
Sewerage Board, Bengaluru - 560 009

mentioned below, to carry the sewage generated in the catchment area to the newly proposed under construction 6 MLD Yelahankakere WwTP, wherein the same was accepted by the PCCF (Wildlife) and permission was accorded by way of order dated 26.07.2024 to lay the said pipeline in order to prevent the entry of sewage in the Puttenahalli Bird Conservation reserve. The above order dated 26.07.2024 of the PCCF (Wildlife) has been placed on record before this Hon'ble Tribunal in the report of the BWSSB dated 28.08.2024 in the instant Original Application.

9. The flow and diameter calculation of the 700 mm dia RCC pipeline is as detailed below:

S No.	Year	Projected Population	Flow in MLD
1	2011 (as per Census)	7049	0.85
2	2021	21000	2.52
3	2031	41580	4.99
4	2041	63202	7.58
5	2051	78312	9.4

Mannings Formula:

$$V = 1/n \times (R^{2/3} \times S^{1/2})$$

$$Q = A \times V$$

$$Q = m^3/sec$$

$$V = m/sec$$

Dia mm	in	Dia m	n	S	V	MLD
300		0.3	0.012	200	0.967	5.9
400		0.4	0.012	250	1.048	11.4
500		0.5	0.012	350	1.028	17.4
600		0.6	0.012	400	1.086	26.5

Indhu
 Chief Engineer (Innovative Projects, R & D)
 Bangalore Water Supply and
 Sewerage Board, Bengaluru - 560 009

700	0.7	0.012	550	0.983	34.1
-----	-----	-------	-----	-------	------

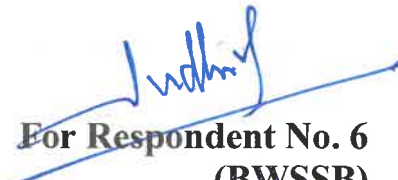
10. Thus, from the above calculation it is evident that the 700 mm diameter of sewer pipeline has sufficient carrying capacity for the projected quantity of sewage likely to be generated by the year of 2051 for a projected population of 78312.
11. A detailed sketch of the Proposed Sewer Network of Balaji Layout, Duo Marvel Layout, Ramanashri California Garden Layout, Ananthpura Village and Byatarayanapura Zones in 110 Village Areas is annexed herewith as **Annexure R-1**.
12. **Re: Progress of the Ongoing Works** – It is submitted that the work of laying of the 700 mm dia Hume pipes along the Yelahanka-Puttenahalli Lake walk way for a stretch of 600 meter is completed and linking of lateral network under World Bank Assistance is under progress. Out of the total length of 12.6 km, around 11.46 km of pipeline is completed. The balance 1.13 km will be completed by end of August 2026, subject to on-site work conditions, as the pipeline has to be laid in a slushy soil and one day of rain makes the site condition not suitable for work up to the next 4 days. Further, these lateral trunk sewers shall be connected to Yelahankere STP wherein the civil works are at the stage of completion and being planned for trial run by the end of September 2026.


 Chief Engineer (Innovative Projects, R & D)
 Bangalore Water Supply and
 Sewerage Board, Bengaluru - 560 002

13. The above information is thus placed on record for the consideration of this Hon'ble Tribunal.

Date: 13.07.2026

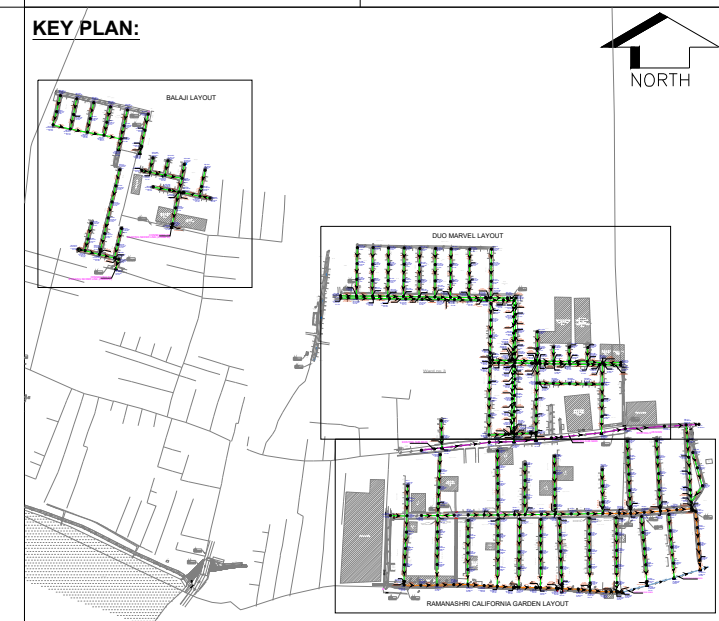
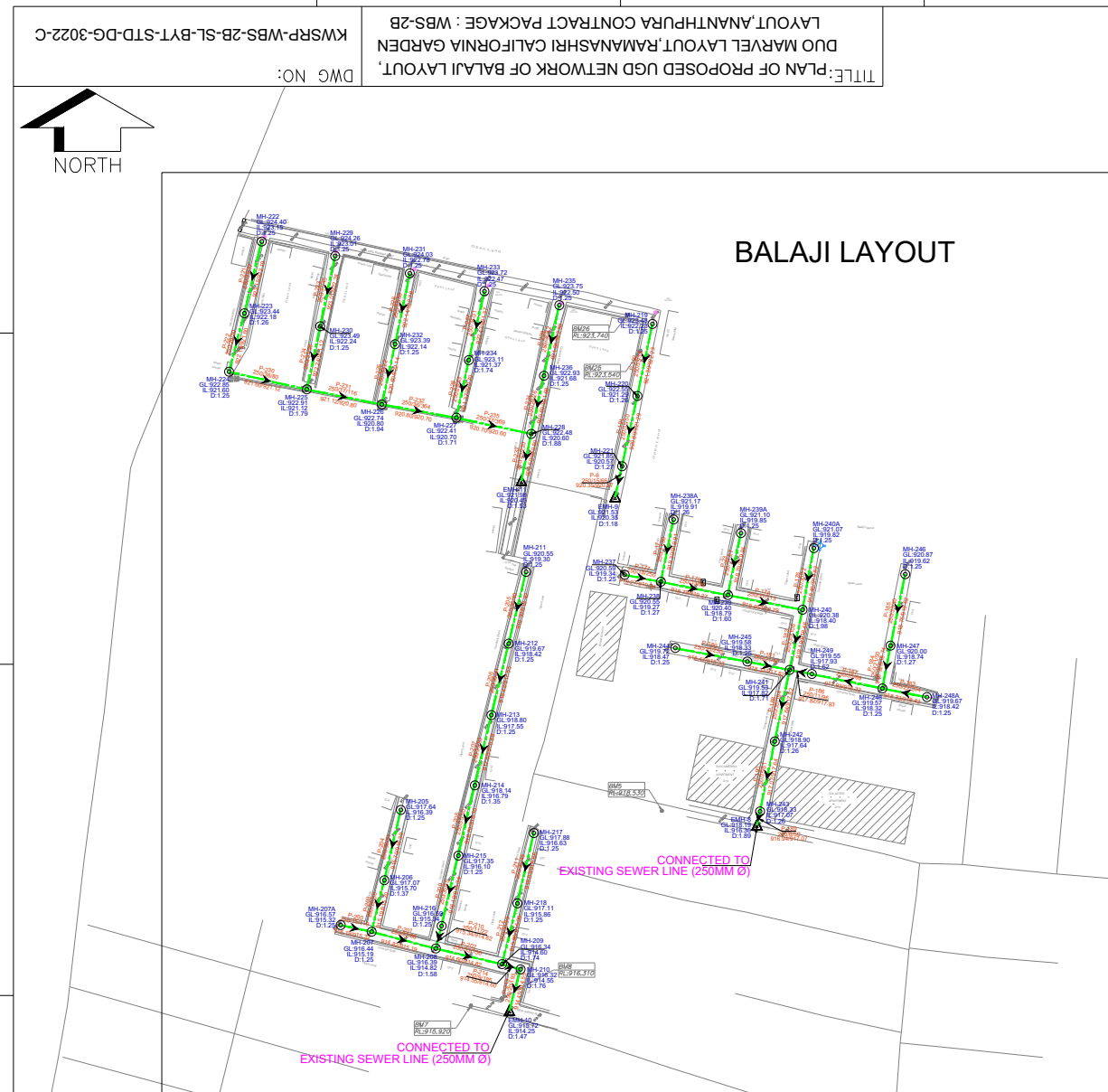
Filed by


For Respondent No. 6
(BWSSB)

Chief Engineer (Innovative Projects, R & D)
Bangalore Water Supply and
Sewerage Board, Bengaluru - 560 009


Darpan KM
Advocate, Supreme Court of India
Counsel for Respondent No. 6

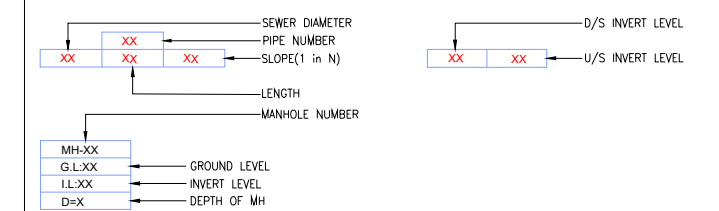
Annexure R-1



- NOTE:**
1. ALL SEWER OF DIA 200MM/250MM/300MM SHALL BE DMC HDPE SNE PIPE CONFORMING TO IS 16098-PART 2-2013
 2. ALL LEVELS ARE IN METERS AND DIAMETER IN MM.
 3. ALL GROUND LEVELS ARE CONSIDERED BASED ON SURVEY DRAWING
 4. DROP SHALL BE PROVIDED FOR MANHOLE, AT LEVEL DIFFERENCE IS MORE THAN 0.6M
 5. ALL SURVEY DETAILS SHOWN IN DRAWING IS FOR INFORMATION ONLY. FOR SURVEY DETAILS REFER TO SURVEY DRAWINGS.
 6. FOR PROPOSED MACHINE HOLES REFER DRAWINGS FROM KWSRP-WBS-28-SN-BYT-STD-DG-3001 TO 3013.

LEGEND:

	-- 250 MM PROPOSED SEWER		-- 400 MM EXISTING SUB MAIN
	-- 300 MM PROPOSED SEWER		-- 700 MM EXISTING SUB MAIN
	-- PROPOSED MACHINE HOLE		-- FLOW DIRECTION
P	-- PIPE	SPS	-- SUB PUMPING STATION
 EMH	-- EXISTING MACHINE HOLE		
 PR/MH	-- PROPOSED MACHINE HOLE		



R2	SIGN.										30-01-2021
	INITIALS	SGS	SKV	BMS							
R1	SIGN.										13-01-2021
	INITIALS	SGS	SKV	BMS							
R0	SIGN.										20-11-2021
	INITIALS	SGS	SKV	BMS							

ISSUE	REVISIONS	RELEASED FOR CONSTRUCTION									
	DRAWN	DSN	CHD	CV	EL	ME	IC	APPD	DATE		

27					CEA/RE		
CLIENT :		BANGALORE WATER SUPPLY AND SEWERAGE BOARD					

FUNDING AGENCY :	 The World Bank Karnataka Water Security and Resilience Program
------------------	--

PROJECT MANAGEMENT CONSULTANTS:	
	TATA CONSULTING ENGINEERS LIMITED, NJS ENGINEERS INDIA PVT. LTD (JV)

NAME OF THE CONTRACTOR:  M/S. ECO PROTECTION ENGINEERS PVT LTD

PROJECT TITLE :
PROCUREMENT, CONSTRUCTION AND COMMISSIONING OF RISING MAIN, MAIN
SEWERS AND LATERALS INCLUDING MACHINE HOLES FOR BYATARAYANAPURA
ZONE (ITEM RATE) IN 110 VILLAGE AREAS (PHASE II) UNDER KARNATAKA WATER
SECURITY AND DISASTER RESILIENCE PROGRAM (KWSDRP) - (CONTRACT PACKAGE
NO. BWSSR/CF-P/KW/SDPR/MRS-2B)

DRAWING TITLE :
PLAN OF PROPOSED UGD NETWORK OF BALAJI LAYOUT,
DUO MARVEL LAYOUT,RAMANASHRI CALIFORNIA GARDEN
LAYOUT.ANANTHPURA CONTRACT PACKAGE : WBS-2B

SCALE: NTS	DATE: (RO ISSUE) 20-11-2025	ISSUE: R2
DIVISION: CV	DATE: (CURRENT ISSUE) 13-01-2026	

DWG. NO. KWSRP-WBS-2B-SL-BYT-STD-DG-3022-C

TCE - NJSEI (JV)	B W S S B		
	CHECKED BY	REVIEWED BY	APPROVED BY
TEAM LEADER	EE(P-2)	ACE	CE(P)
FILE NAME:	KWSRP-WBS-2B-SLT-BYT-STD-DG-3022-C		