

BEFORE THE NATIONAL GREEN TRIBUNAL SOUTH ZONE  
CHENNAI ORIGINAL APPLICATION NO. 102 OF 2022 (SZ)

IN THE MATTER OF

1. Human Rights & Consumer Protection Cell Trust,
2. Talari Ashok Kumar

....Applicant(s)

Versus

The State of Telangana, Rep by its Chief Secretary, Hyderabad &Ors

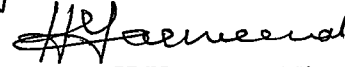
....Respondent(s)

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Place: Chennai  
Date: 25.01.2025

standing Counsel for 7 th Respondent

  
H. Yasmeen Ali

IN THE NATIONAL GREEN TRIBUNAL SOUTHERN ZONE, CHENNAI

Original Application No. 102 of 2022 (SZ)

**Between:**

1. Human Rights & Consumer Protection Cell Trust
2. Tallari Ashok Kumar S/o Tallari Yadaiah

.....Applicants

AND

1. The State of Telangana Rep by its Chief Secretary,  
Telangana Secretariat, Hyderabad-500063, Telangana State.
2. The Metropolitan Commissioner Hyderabad Metropolitan Development  
Authority Swarna Jayanthi Complex, Ameerpet, Hyderabad 500038, Telangana  
state.
3. Lake Protection Committee( G.O Ms No. 157 MA & UD dt.06.04.2010)  
Rep. By its Member Convener: Member Environment – Telangana State.
4. The Member Secretary – Pollution Control Board, Telangana.
5. The District Collector – Sangareddy District, Telangana.
6. The Superintending Engineer, Irrigation Department, Sangareddy.
7. The Executive Engineer & District Irrigation officer – Sangareddy.
8. The District Fisheries Officer- Sangareddy, Telangana.
9. The District Panchayat Officer- Sangareddy, Telangana.
10. The District Registrar & Assurances –Sangareddy, Telangana.
11. The Tahsildar – Ameenpur Mandal, Sangareddy, Telangana.
12. The Village Secretary – Patelguda Village, Ameenpur Mandal, Sangareddy.
13. The Village Secretary – Kistareddypet Village, Ameenpur Mandal, Sangareddy.
14. Sri M. Ch. Ragahava Rao, S/o Sri.M.Narayana Rao, Hyderabad.
15. Sri Kunchala Venkata Kondaiah Raju S/o Sri.Venkata Swamy, Patelguda  
Village, Ameenpur (M).

.....  
Respondents.

REPORT FILED BY RESPONDENT No.7 TO OBJECTION RAISED BY  
THE APPLICANT

1. The report dated 21.12.2022 of the Telangana State Pollution Control Board (TGPCB) states that a bund is constructed around the water body and the spun pipes were provided beneath the bund at 3 - 4 locations on the North and East sides for facilitating the rainwater surface run-off to enter the water body. The photographs are also attached for easy reference.

**Reply:** It is to submit that there are about 17 No's of spun pipes i.e., (1 pipe of 900 mm diameter and 16 pipes of 600mm diameter) which were laid for inletting the rain water surface runoff to enter the water body. Copies of photographs showing spun pipe at inlets is herewith enclosed.

2. However, it is not clear whether spun pipes laid will be sufficient to drain the surface run-off of the water into the water body. The Irrigation Department may indicate the carrying capacity of the pipes laid to carry the water into the water body and state whether it can substitute the sheet flow of water when the bund was not constructed/capacity of inlet channels existing prior to the construction of bund along with details.

**Reply:** It is to submit that the catchment area of the Patel Cheruvu /Patla Cheruvu situated at Patelguda Village, Ameenpur Mandal, Sangareddy District is worked out as 0.291 Sq.miles area as per topo sheet and a Discharge of 5.278 cumecs is worked out using Dickens formula for this catchment area. Further there are about 1No. of 900mm dia pipe and 16 No's of 600 mm dia pipes as inlets laid at various location of the fore shore of the tank for inletting the flows into the tank. The accommodated / allowable flows into the tank is worked out to be 5.480 cumecs (Calculation Sheet enclosed) which is more than the required discharge of 5.278 cumecs. Hence, the laid pipes are sufficient to cater the inflows of the tank.

3. The analysis report filed by the TGPCB is also alarming, as the parameters of Total Dissolved Solid (TDS), Chemical Oxygen Demand (COD), etc. are above the permitted limits. The class of the water body as per the CPCB water quality criteria is said to be 'Class-D'.

**Reply:** The subject pertains to Telangana Pollution Control Board (TGPCB)

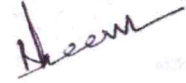
4. Therefore, let the Irrigation Department file a report as to the carrying capacity of the waterways and quantum of sheet flow into the water body before laying of these spun pipes and after they are laid and let care be taken to arrest the sewage entering into the water body, as had been reported by the TGPCB. Let the report also include the action taken in this regard.

**Reply:** It is also to submit that the carrying capacity of the waterways and quantum of sheet flow into the waterbody before laying of these spun pipes and after they are laid are not affected as the allowable capacity more.

Photograph showing inlets to the tank and also hydraulic design details of the catchment area at inlets are attached for ready reference.

Further, It is also to submit that a letter has been addressed to Municipal commissioner, HMDA for taking up diversion of sewage entering into the Patel Cheruvu/Patla Cheruvu situated at Patelguda Village, Ameenpur Mandal, Sangareddy District.

It is submitted for kind information please.



DEPONENT

**Executive Engineer**  
**I.B.Division, Sangareddy**

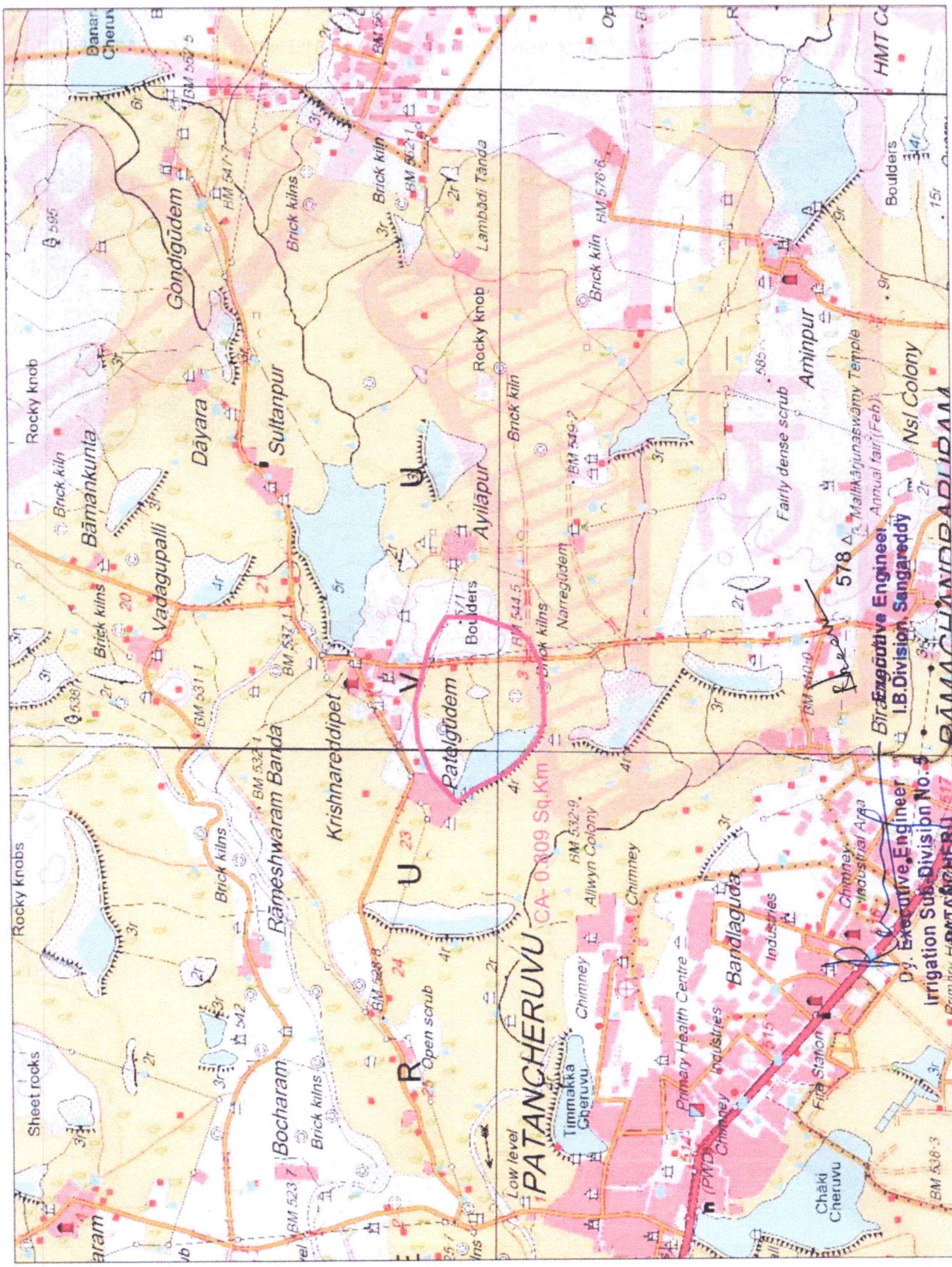
INLETS OF PATEL CHERUVU/PATLA KUNTA, PATELGUDA(V), AMEENPUR (M), SANGAREDDY(D).



*[Signature]*  
Dy. Executive Engineer  
Irrigation Sub-Division No. 5  
PATANCHERU

*[Signature]*  
Executive Engineer  
I.B.Division, Sangareddy

# Catchment Area Of Patel Cheruvu



Dy. Executive Engineer  
 Irrigation Sub-Division No. 5  
 PATANCHERUVU

B. Sangareddy  
 Birajagadate Engineer  
 I.B. Division, Sangareddy

PATANCHERUVU  
 CA-0.809 Sq.Km

INLETS OF PATEL CHERUVU/PATLA KUNTA, PATELGUDA(V), AMEENPUR (M), SANGAREDDY(D).

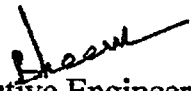


VERIFICATION

I, B. BHEEM S/o Galappa Aged about 54 years, R/o. Sangareddy, Occ: Service, Executive Engineer, Sangareddy Irrigation Department hereby state and submit that the contents of the above paras are true and correct to the best of my knowledge and belief and are as per records in the office.

Hence, verified on this 25<sup>th</sup> day of 2025.

Hyderabad,  
Date:

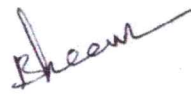
  
Executive Engineer,  
Irrigation Division No.1,  
Sangareddy.

**Hydraulic Design calculation of Patel Kunta/Patla Cheruvu(V), Ameenpur(M) Sangareddy (Dist)**

1	<u>Catchment area (M)</u>	= 0.291	Sq.Miles	Catchment area calculation obtained from Toposheet
2	<u>Discharge with reference to catchment area</u>	Q = 186.394	Cusecs	If M < 2.5 Sq.Miles Q = CM where
	Hence Qreq	= 5.278	Cumecs	If M > 2.5 Sq.Miles Q = CM <sup>3/4</sup> 1 Cusecs = 0.028316846592
3	<u>Existing Inlet Channels to the Tank</u>			
	There are 1 Numbers of 900mm (0.90M) present at the tank	= .9X.9/4X22/7		$\pi \times D^2/4$
	Area -1	= 0.64	Sq.M	Total Cross section Area of Inlets
	There are 16 Numbers of Inlets of each 600mm (0.60M) present at the tank	= 16X.6X.6/4X22/7		$16 \times \pi \times D^2/4$
	Area -2	= 4.53	Sq.M	Total Cross section Area of Inlets
	Total Area	= 5.17	Sq.M	Total Cross section Area of Inlets
	Area - A	= 5.170	Sq.Mts	
	Wetted perimeters - P	= 30.171	Mts	P = 16xπxD
	R	= 0.171		R = A/P
	S	= 500	i.e 1 in 500	S is the slope of Ground Level
	n	= 0.013	Generally Considered 0.012 to 0.018	n is the <b>Gauckler-Manning coefficient</b> , it is unitless
	As per manning formula V	= 1.061		$V = 1/n \times R^{2/3} \times S^{1/2}$
	Say V as	1.060	Mts/Sec	
4.	<u>For Existing Inlet channels</u>	Considering V as = 1.060	Mts/Sec	
	Discharge of Accomodated by Existing Inlet Pipes	= 5.480	Sq.Mts	Qdis = AXV
5.	<u>Checking for dimensions</u>			
	Qreq	= 5.278	Cumecs	Discharge Generated from Catchment Area
	Qdis	= 5.480	Cumecs	Allowable Discharge from existing Inlet Pipes

as Qdis > Qreq The Provided Inlet Pipes are sufficient for quantum of sheet water

  
 Dy. Executive Engineer  
 Irrigation Sub-Division No.  
 PATANCHERU

  
 Executive Engineer  
 I.B.Division, Sangareddy