Date 03/02/2026

Field Inspection Report

Subject: Regarding the Submission of findings by the constituted committee concerning the impact on crop growth and production as per the instructions in the legal case of Shri Pramod Eknathrao Jadhav & Others residents of pathri ,taluka Phulambri,District Sambhajingar vs. Radico NV Distilleries Maharashtra Limited (Case Nos. 03/2023, 53/2023, and 79/2023) before the Hon'ble National Green Tribunal(NGT).

References:
1.Case Nos. 03/2023, 53/2023, and 79/2023 of the Hon'ble National Green Tribunal(NGT),Western Zone Bench,Pune;Hearing date:6/08/2025
2. Case Nos. 03/2023, 53/2023, and 79/2023 of the Hon'ble National Green Tribunal(NGT),Western Zone Bench,Pune;Hearing date:20/11/2025
3.Order No.4281 of this office,dated:08/12/2025

With reference to above subject,it is respectfully submitted that in the legal matter of shri Pramod Eknathrao Jadhav and others vs. Radico NV Distilleries Maharashtra Limited(Case Nos. 03/2023, 53/2023, and 79/2023) *at* village Pathri ,taluka Phulambri,District Sambhajingar the Hon'ble National Green Tribunal reference no 1 has issued orders to calculate/evaluate the compensation for soil and crop damage in the fields of those affected by chemicals.This measurement is to be based on the Minimum Support Price (MOP)of the crops grown from the year 2018 to the present.

Accordingly ,as per reference No 3 a committee was constituted. This committee collected soil and water samples for testing one from each of the following gut numbers in village Pathri 123,124,139,140,141 and 143

1.Farmers List

Case No :-53/2023 N.G.T.Pune

Sr. No.	Farmer's Name	Gut No.	Crops Grown	Soil & Water Test Report Conclusions
1	Sanjay Khandu Navgire	123	Ginger, Wheat, Tur, Potato, Mango	Severe alkalinity, extremely high lime content, low iron and zinc. Water is highly saline (C3S1) and sulfate is unsuitable. Due to severe alkalinity, the soil is hard and compact, preventing roots from penetrating deep. High pH prevents the availability of essential nutrients like Nitrogen, Phosphorus, Potash, and micronutrients. Such land is extremely low in productivity for
2	Sunanda Sanjay Navgire	123	Ginger, Wheat, Tur, Potato	
3	Siddhant Sanjay Navgire	123	Ginger, Wheat, Potato, Mango	
4	Vaishali Sanjay	123	Ginger, Wheat, Tur, Potato	

Sr. No.	Farmer's Name	Gut No.	Crops Grown	Soil & Water Test Report Conclusions
	Navgire			crops.
5	Varsha Sanjay Navgire	123	Ginger, Potato	

Case No :-53/2023 N.G.T.Pune

Sr. No.	Farmer's Name	Gut No.	Crops Grown	Soil & Water Test Report Conclusions
1	Bhagwan Shankar Suradkar	123	Tur, Wheat, Ginger	Severe alkalinity, extremely high lime, low iron and zinc. Water is highly saline (C_3S_1) and sulfate is unsuitable. Soil has low water-holding capacity and extremely poor drainage, leading to waterlogging. High pH levels make Nitrogen, Phosphorus, Potash, and micronutrients unavailable to crops.
2	Tulsabai Bhagwan Suradkar	123	Tur, Wheat, Ginger	
3	Gajrabai Shankar Suradkar	123	Tur, Wheat, Ginger	
4	Jyoti Shankar Suradkar	123	Tur, Wheat, Ginger	
5	Sarla Bhagwan Suradkar	123	Tur, Wheat, Ginger	
6	Rushikesh Bhagwan Suradkar	123	Tur, Wheat, Ginger	

Case No :-53/2023 N.G.T.Pune

Sr. No.	Farmer's Name	Group No.	Crops Grown	Soil & Water Test Report Conclusions
1	Sheshrao Gyanuji	1 40, 141	Wheat,	The soil is highly alkaline and has extremely high lime (calcium

Sr. No.	Farmer's Name	Group No.	Crops Grown	Soil & Water Test Report Conclusions
	Jadhav		Custard Apple,	carbonate)content .Nitrogen and Phosphorus levels are extremely low.Iron and Zinc levels are also low. The water is highly saline (C3S1)and has unsuitable sulphate levels.Due to the extreme Alkalinity,the soil is hard and compact,which results in: Low water –holding Capacity. Extremely Poor drainage,leading to water logging Restricted root growth,roots cannot penetrate deep into the hard soil. Because of high pH (alkalinity),essential nutrients likeNitrogen,Phosphorus,Potassium and micronutrients become unavailable to the crops.Such land has extremely low productivity. Water impact- the C3S1 grade irrigation water can cause moderate to severe salinity effects on the soil,which may reduce germination rates.It is advisable to use this water only on the land that has excellent drainage.
2	Sushilabai Sheshrav Jadhav	1 40, 141	Wheat, Custard Apple	
3	Jaydeep Sheshrav Jadhav	140,141	Wheat,Custard Apple	
4	Renisha Jaydeep Jadhav	140,141	Wheat,Custard Apple	
5	Niraj Jaydeep Jadhav	140,141	Wheat,Custard Apple	
6	Viraj Jaydeep Jadhav	140,141	Wheat,Custard Apple	
7	Ratndeep Sheshrav Jadhav	140,141	Wheat,Custard Apple	
8	Chhaya Ratndeep Jadhav	140,141	Wheat,Custard Apple	
9	Neha Ratndeep Jadhav	140, 141	Wheat, Custard Apple,	
10	Raj Ratndeep Jadhav	140, 141	Wheat, Custard Apple,Ginger	
11	Amol Sheshrav Jadhav	140, 141	Wheat, Custard Apple,Ginger	
12	Sushma Amol Jadhav	1 40, 141	Ginger, Maize, Wheat	

Sr. No.	Farmer's Name	Group No.	Crops Grown	Soil & Water Test Report Conclusions
13	Atharv Amol Jadhav	1 40, 141	Ginger, Maize, Wheat, Custard Apple	
	Case No :- 53/2023 N.G.T.Pune			
1	Tejarav Gyanuji Jadhav	139,141,124	Wheat, Potato, Guava	Extreme alkalinity, high lime, low Nitrogen, Phosphorus, Iron, Zinc, and Manganese. Water is highly saline.
2	Aruna Tejarav Jadhav	13 9,141, 124	Wheat, Potato, Guava	
3	Kuldeep Tejarav Jadhav	13 9,141, 124	Wheat, Gram	

Case No :-53/2023 N.G.T.Pune

Sr No	Farmers Name	Gut No	Crops Grown	Soil &Water Test Report Conclusions
1	Dinesh Vinayakrav Jadhav	143	Wheat, Gram	Extreme alkalinity, high lime, low Nitrogen, Phosphorus, Iron, Zinc, and Manganese. Water is highly saline.
2	Shubradabai Vinayakrav Jadhav	143	Wheat, Gram	

Case No :-53/2023 N.G.T.Pune

Sr. No.	Farmer's Name	Group No.	Crops Grown	Soil & Water Test Report Conclusions
1	Bhagwan Bala Jadhav	12 4, 140, 143,	Maize, Wheat, Potato, Mango, Ginger	Extreme alkalinity and high pH. Soil is hard, resulting in poor drainage and nutrient unavailability. Land is low-productivity.

Sr. No.	Farmer's Name	Group No.	Crops Grown	Soil & Water Test Report Conclusions
2	Padmabai Bhagvan Jadhav	12 4, 140, 143,	Maize, Wheat, Potato, Mango, Ginger	
	Case No :-3/2023 N.G.T.Pune			
1	Sandip Sheshrav Jadhav	140	Wheat, Custard Apple	Extreme alkalinity, high lime, low Nitrogen/Phosphorus/Iron/Zinc. Soil is hard and prone to waterlogging.
2	Shivnanda Sandip Jadhav	140	Wheat, Custard Apple	
3	Sangharsh sandip Jadhav	140	Wheat, Custard Apple	
4	Sanvidhan sandip Jadhav	140	Custard Apple	
5	Samrat Sandip Jadhav	140	Wheat, Custard Apple	
	Case No :-79 /2023 N.G.T.Pune			
1	Dr. Pramod Jadhav,	143, 139	Mango, Custard Apple,Jambhul,Banana, Gauva,Wheat,Potato	Extremely alkaline,limestone extremely high,nitrogen extremely low,Phosphorus low,Iron low,zinc low manganese low water quality highly saline (C3S1) and sulphate levels are unsuitable
2	Gayabai Dasharath Jadhav	143	Gram,Sugarcane	
3	Madhukar Namdev Pagare	124	Wheat,Pigeon Pea,Cotton	
4	Chndrabhagabai Madhukar Pagare	124	Wheat,Pigeon Pea,Cotton	
5	Pawan Madhukar Pagare	124	Wheat,Pigeon Pea,Cotton	Highly alkaline,limestone extremely high,nitrogen extremely low,Phosphorus low,Iron low,zinc low manganese low water quality
6	Sindhubai	124	Wheat,Pigeon	

Sr. No.	Farmer's Name	Group No.	Crops Grown	Soil & Water Test Report Conclusions
	Bhaskar Pagare		Pea,Cotton	highly saline (C3S1) and sulphate levels are unsuitabl
7	Ajay Bhaskar Pagare	124	Wheat,Pigeon Pea,Gram,Mango	

2. Soil and Water Test Findings

The District Soil Survey and Soil Testing Officer reported the following critical issues across the inspected lands:

- **Soil Quality:** The land is classified as **highly alkaline** with extremely high levels of lime (calcium carbonate).
- **Nutrient Deficiency:** There is a severe deficiency of Nitrogen (N), Phosphorus (P), and Potash (K), along with low levels of essential micronutrients like Iron, Zinc, and Manganese.
- **Physical Properties:** High alkalinity has made the soil hard and compact, preventing roots from penetrating deep into the ground.
- **Water Quality:** Irrigation water is categorized as **C3S1 (Highly Saline)**. This water is unsuitable for soil with limited drainage and can cause severe salinity issues, leading to poor seed germination.

3. Observed Impact on Crops

The committee's physical inspection on December 30, 2025, revealed a **20-30% reduction** in overall productivity. Specific observations include:

Crop Type	Observed Damage
Sugarcane	Reduced tillering (fewer shoots).
Cotton, Pigeon , Maize	Stunted growth and premature flower dropping.
Ginger	Rotting of the crop.
Custard Apple	Poor fruit setting.
Mango	Stunted tree growth.

Farmers reported that due to contaminated well water, they are forced to source water from unaffected areas via long pipelines. Continuous use of contaminated water over the last 4-5 years has lead to a steady decline in soil health and yields.

4. Estimated Economic Loss (FY 2024-25)

Due to the lack of historical site-specific data, the committee calculated the estimated reduction in income per hectare based on current MSP and average yields:

Crop	Yield (Quintal/Hectare)	MSP 2024-25 (Per Qtl)	Income Loss (INR/Hectare)
Wheat	23.02	₹2,275	₹10,474
Bajra	10.09	₹2,625	₹6,621
Pigeon Pea	7.31	₹7,550	₹16,557
Cotton	11.96	₹7,121	₹22,995
Gram (Chickpea)	10.65	₹5,440	₹15,642
Maize	35.64	₹2,225	₹21,410

This report is submitted for further action by the following officials:

sd -
Assistant Agriculture Officer
Pathri

sd -
Deputy Agriculture Officer
Phulambri 2

Sd -
Junior Geologist
Chh.Sambhajinagar

Sd -
Soil and Water Testing Specialist,
Krishi Vigyan Kendra.

Sd -
Taluka agriculture Officer
Fulambri

Sd -
District Soil Survey and Soil Testing Officer
Chhatrapati Sambhajinagar

Sd -
Sub-Divisional Agriculture Officer
Chhatrapati Sambhajinagar

District Superintendent Agriculture Officer
Chhatrapati Sambhajinagar