

# Report

## Of the Joint Committee

Constituted by this Hon'ble National Green Tribunal

in the matter of Original Application No. 348/2021

(Pradeep Kumar & Ors. Versus Union of India & Ors.)

Vide Order Dated 04.01.2022

and Subsequent orders

  
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**COMPLIANCE REPORT  
IN THE MATTER OF  
ORIGINAL APPLICATION NO. 348/2021 TITLED;  
PRADEEP KUMAR & ANR.VS UNION OF INDIA & ORS**

**1.0 BACKGROUND**

In compliance of the order dated 04.01.2022, passed by the Honourable National Green Tribunal, an Action Plan was filed before Hon'ble National Green Tribunal. Thereafter, the matter was listed before the Hon'ble National Green Tribunal on 03.08.2022 when further directions were issued. Key directions of the order dated 03.08.2022 are reproduced below:

*Para 8. "...Ponds need to be protected and kept free from pollution. As recommended, decentralized system of sewage system needs to be followed and treated water waste stored in ponds for proper landscaping. The interception of storm water drain is required so that sewage goes into the sewerage system. It does appear that existing sewerage network for 80 villages is inadequate as there are only 16 fecal sludge receiving points. The suggestion that there has to be atleast one sludge receiving point in each village needs to be explored. Decentralized system of sewerage in villages needs to be set up. Septage management needs to be monitored by designated authorities/statutory regulators."*

*Para 9. "It is utmost necessary that all households and other establishments are connected to sewers to make use of laid sewer line otherwise, it will remain*

  
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*defunct. No wastewater be allowed to go into pond and within three months, the ponds in question be remediated and water quality be improved."*

*Para 10. "The joint Committee already constituted needs to further monitor compliance to ensure that there is no overflow of sewage in the drains and the same is not discharged into water bodies - ponds/drains. The same must be scientifically managed either in STP or by traditional water treatment facilities, to be duly approved and monitored by the authorities keeping in mind the need for hygiene and public health. The treated sewage water needs to be duly utilized for non-potable purposes - agriculture, washing of roads and other such purposes. In the interest of public health, the residents may be persuaded to have sewage connections and the authorities may explore levying charges against all the residents so that connections are not be avoided for saving the charges. The entire exercise be completed in time bound manner, preferably within three months."*

## 2.0 COMPLIANCE TO NGT's DIRECTIONS

In compliance to directions of the NGT, Joint Committee reviewed the progress made by Greater Noida Industrial Development Authority (GNIDA) on following aspects:

- a) Sewage Management: Establishment of Infrastructure with respect to laying of Sewer lines and connectivity of households of 124 villages.
- b) Septage Waste Management of 124 villages
- c) Rejuvenation of Ponds
- d) Reuse of Treated wastewater

The detailed status is discussed in subsequent sections.

  
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## 2.1 Sewage Management of 124 villages

As Joint Committee highlighted, there is end pipe treatment in 35 villages and for remaining villages Faecal Sludge Management options are provided. Most of the households in villages have septic tank. The grey water and digested effluent from septic tanks of some households discharge into local drainage system. The wastewater from washing of cattle and cattle excreta also get discharged into storm water drainage system.

The progress made by GNIDA in respect their earlier submission is listed out in Table 1.

**Table 1: Status of sewer network connectivity in Villages of Greater Noida**

Sl. No. (A)	Number of Villages (B)	Status of Sewerage Network (C)	Status of Connectivity to STPs (D)	Action plan for Remediation (E)	Updated Status (As on 20.02.2023) (F)
1.	35*	Sewerage Network Available in Villages	Sewer network laid in said villages are connected to STPs. Households reluctant to take sewer connection.	<ul style="list-style-type: none"> <li>• GNIDA has conducted multiple camps.</li> <li>• Intensive Information Education Communication (IEC) at Household level is planned.</li> <li>• Two NGOs contracted by GNIDA for spreading awareness among local.</li> </ul>	Among the 35 villages, 8 villages <sup>1</sup> have been provided with 100% household level sewer connections. GNIDA has conducted IEC campaign to persuade villagers for applying to get new sewer connections and collected 2087 applications. Among the 10137 estimated houses in these 35 villages, GNIDA has provided connections to 5466 houses. GNIDA has provided 1458 connections in the villages in the last three months despite lower demand for connections. Work is under progress to provide sewer connections to remaining houses.
2.	21**	Sewerage Network Available in Villages	Villages have access to desludging points. Village level network not connected	Connectivity of Sewerage System to STP will be completed by the end of 2024	Nearly 70% works have been completed in the construction of an Intermediate Pumping Station (IPS). It will help to connect 17 more villages to STP located at Ecotech-

  
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			to STP. STP is available with sufficient treatment capacity (174 MLD, Inflow 110-120 MLD)		III by 31.03.2023. Remaining connectivity will be completed by 31.12.2024.
3.	28#	Sewerage Network Available in Villages	Villages have access to desludging points. Internal lines not connected to STP.	Connectivity of Sewerage System to STP will be completed by the end of 2024	STP will be constructed by 2024. Estimation is completed. Tendering of work will be completed by 30.04.2023. Connectivity will be completed by 31.12.2024 as per timeline in Action plan.
4.	31##	Sewerage Network Available in Villages	Villages have access to desludging points. Internal lines not connected to STP.	Connectivity of Sewerage System to STP will be completed by the end of 2027	IIT Roorkee has been engaged to prepare plan for connecting 31 villages to STP.
5.	2	Uninhabited villages			
6.	6	Villages falling under Noida- Chaproli Banger, Mohiyapur, Shehdra Villages falling under Ghaziabad- Duda-Heda, Mavai, Akbarpur Bahrapur			
7	1	One village has been mentioned twice in the notification			

List of villages with 100% Household sewer connection: Namoli, Kyampur, Rampur Jagir, Nawada, Mathurapur, Jaitpur Vaishpur, Aiccher, Gurjarpur

## 2.2 Rejuvenation of Ponds

As mentioned above, 80 villages are not having household's connection to sewer lines. GNIDA has laid internal sewer lines in the villages but not connected to STPs. The greywater, water from washing of cattle and cow dung from villages reaches ponds. As an interim measure, GNIDA has initiated to improve condition of ponds. As recommended earlier, GNIDA has resorted to treatment of water before it enters ponds. GNIDA has identified 169 ponds to be improved

  
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in the first phase. The status of ponds being improved by GNIDA is presented in Table 2.

**Table 2: Details of Pond Rejuvenation undertaken by Greater Noida Authority**

Sl. No.	Description	Number of Ponds
1	Ponds which are in tendering process	74
2	Ponds with regard to which work has been awarded/ or work is in the advance stage of award	35
3	Ponds where work has already started	29
4	Ponds which are already developed	17
5	Ponds which are presently being developed with the help of NGOs	14
	<b>Total</b>	<b>169</b>

GNIDA has utilised Nature Based Treatment Systems to ensure treatment of water before it enters ponds. This is in line with the recommendation of this committee. GNIDA has improved 17 ponds (Annexure 1 presents before and after condition of some ponds) as on date. Work has started in 29 ponds. Further 14 ponds are being rejuvenated through NGOs. Work has been awarded/ or is in the advanced stage of award in 35 ponds and in the remaining 74 ponds tendering process is ongoing.

### 2.3 Septage Waste Management (Faecal Sludge Management (FSM))

Scientific Faecal Sludge Management is identified as a recommended interim solution by this committee, until 100% centralised sewage network coverage is achieved.

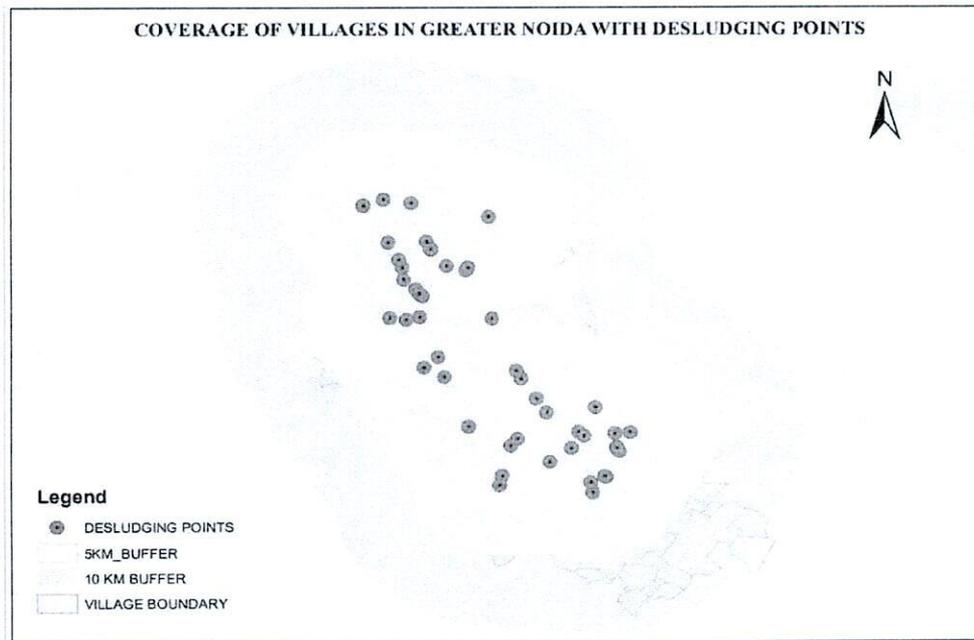
  
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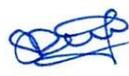
  
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a. **Desludging Points:** GNIDA has constructed and operationalised 49 desludging points (33 new points) as per the direction of the Hon'ble NGT(Annexure-2 lists out locations of desludging points with geo-coordinate). Around 80 villages under GNIDA jurisdiction are now provided with septage management options within 5 km distance and the remaining are provided facility within 10km distance (Map below may be referred). GNIDA has complied with the FSM guidelines which suggest provision of facility within 10km distance.



- b. **Registration of Desludging Operators:** As recommended in the FSM guidelines, GNIDA has formalised the private desludging operators market through registration of desludging operators. GNIDA has provided training and PPE kits to desludging operators.
- c. **Call Centre:** GNIDA has established a call centre with 4 numbers to quickly resolve sewer related issues in villages. These call centre numbers are also

  
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advertised through IEC campaigns run by GNIDA and wall paintings in each village.

#### 2.4 Reuse of Treated wastewater

As mentioned by Greater Noida Authority, the treated sewage utilises for horticulture purposes for which dedicated supply lines have been laid and made operational. GNIDA has also entered into MOUs with industries (Holitech, NIDP, IITGNL etc.) through which it sells treated wastewater from STPs. GNIDA also sells treated wastewater for construction activities. GNIDA has been utilising 1.8 MLD of treated wastewater for the above mentioned purposes. Work is under progress for laying more supply lines to industries. By 31.03.2023 10 MLD treated wastewater shall be utilised.

GNIDA is developing all ponds through provision of Nature Based Treatment Systems (DEWATS). The wastewater generated in villages shall be treated in decentralised manner and treated water shall be used for recharging of ponds.

#### 3.0 MAJOR FINDINGS

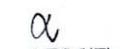
Based on above observations, following findings are made

1. In respect of laying of Sewerage network and establishment of STPs, tenders have to be floated soon and works started. Intermediate Pumping Station (IPS) shall be constructed by 31.03.2023 which will lead to conveyance of wastewater of 17 villages to existing STPs. In rest of villages, connectivity of households to sewer line is in process. The final connectivity of sewer line to STP will completed by 2027. *It seems there is no substantial progress on said aspect.*

  
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However, as an interim measure, GNIDA has constructed and operationalised 49 desludging points (33 new points). As mentioned above, around 80 villages under GNIDA jurisdiction are now provided with septage management options within 5 km distance and the remaining are provided facility within 10km distance.

GNIDA has taken initiative and conducted IEC for spreading awareness among local villagers to take sewer connections and septage management.

2. The timelines for connectivity of sewage network to STPs is 05 years. Therefore, GNIDA has initiated the work of decentralized treatment in each village through Nature Based Treatment Solutions (DEWATS) and the treated water used for recharging the ponds through low cost and sustainable options. At present, the desludging and lining of ponds being carried out.
3. GNIDA has mentioned that the work of 17 ponds is completed and work is started in other 29 ponds. The committee may monitor the water quality of existing 17 ponds and also monitor the work of 29 ponds wherein work of rehabilitation is started.



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# Rejuvenated Pond (*Pre-Post Picture*)

## Ajampur Gadi Village Pond

Pre Intervention Picture



Post Intervention Picture



# Rejuvenated Pond (*Pre-Post Picture*)

## Rauni Village Pond

Pre Intervention Picture



Post Intervention Picture



# Rejuvenated Pond (*Pre-Post Picture*)

## Chauganpur Village Pond (Dadri Tehsil)

Pre Intervention Picture



Post Intervention Picture



# Rejuvenated Pond (*Pre-Post Picture*)

## Salempur Village Pond (Dadri Tehsil)

Pre Intervention Picture



Post Intervention Picture



# Rejuvenated Pond (*Pre-Post Picture*)

## Rampur Majra Village Pond (Dadri Tehsil)

Pre Intervention Picture



Post Intervention Picture



# Rejuvenated Pond (*Pre-Post Picture*)

## Astaulli Village Pond

Pre Intervention Picture



Post Intervention Picture



# Rejuvenated Pond (*Pre-Post Picture*)

## Astaulli Village Pond

Pre Intervention Picture



Post Intervention Picture



# Work In Progress (2 Ponds)

## Bagpur Village Pond

Pre Intervention Picture



Work In Progress



Currently Desilting, Embankment strengthening and Bund making is in process

# Work In Progress

## Roshanpur Village Pond

Pre Intervention Picture



Work In Progress



Currently water hyacinth removal through machinery is in process

# Work In Progress

## Chithera Village Pond

Pre Intervention Picture



Work In Progress



Currently Desilting, Embankment strengthening and Bund making is in process

# Work In Progress (2 Ponds)

## Khodna Kala Village Pond

Pre Intervention Picture



Latitude: 28.545827  
Longitude: 77.512087  
Elevation: 221.51±8 m  
Accuracy: 4.3 m  
Time: 07-04-2022 17:10  
Note: khodna khurd  
Noida

Powered by NoteCam

Work In Progress



Latitude: 28.545963  
Longitude: 77.512018  
Elevation: 217.91±11 m  
Accuracy: 1.5 m  
Azimuth: 100° (E)  
Pitch: -12.7° (-1.7°)  
Time: 01-19-2023 10:29  
Note: Khodana Kalan

Powered by AngleCam

Currently Desilting, Embankment strengthening and Bund making is in process

# Work In Progress

## Milak Lachhi Village Pond

Pre Intervention Picture



Work In Progress



Currently Desilting, Embankment strengthening and Bund making is in process

## Annexure 2

### List of Desludging points for Septage Management

Sl. No.	Place	Latitude	Longitude
1	Near NTPC Ecotech-II	28.508699	77.4726669
2	Behind Vectra Company Ecotech-II	28.495711	77.4763326
3	Near 15MLD STP Ecotech-2	28.501754	77.4639982
4	Near ATS Society Eta Zeta Rotary	28.494754	77.5222618
5	Near Wipro Rotary Delta-1	28.482459	77.53120972
6	Near P-3 Rotary	28.457277	77.5201778
7	Near Fire Station Knowledge Park-3	28.464822	77.4910172
8	Near 137 MLD STP Kasna	28.442212	77.53957
9	Near Chi-5 Under Pass	28.433354	77.5106579
10	Near Sirsa Rotary 130M Wide Road	28.432701	77.5729679
11	Near litngl Sector Xu-III C-Block	28.461224	77.5875334
12	Near Bennet University Ecotech-1 Ext-1	28.449369	77.5811657
13	Near Oppo Company Ecotech-7	28.422741	77.565045
14	On 130M Wide Road Near Gaur Atulyam Omicron-1	28.461625	77.5567706
15	Near Gail Society-Pi-1	28.473828	77.537556
16	Khanpur	28.429376	77.563738
17	Supertech Omicron 1St	28.458721	77.559872
18	Mu-I Near Ghodi	28.477096	77.566647
19	Xu-3 Raipur Bangar	28.460802	77.578408
20	Village Dadha	28.451443	77.579496
21	Village Rampur	28.451391	77.579561
22	Sirsa Gol Chakkar	28.433048	77.572476
23	P-3	28.452852	77.516181
24	Chuharpur Khadar	28.427948	77.509451
25	Sakipur Zeta-1	28.500238	77.519495
26	Village Kasna	28.451356	77.552165
27	Near Chauganpur Rotary	28.551306	77.459243
28	Near 20 MLD STO Kachchi Sadak Ecotech-3	28.532455	77.4535666
29	At Kachchi Sadak, Opposite Jaiswal Motors	28.533825	77.4614916
30	Near Hanuman Mandir Rotary Sector-1	28.580955	77.442696
31	Near Balak Inter College	28.557104	77.451708
32	Near Char Murti Sector - 4	28.604006	77.428083
33	Near Gaur City (Sector 16C)	28.607637	77.440169
34	Near Saini Rotary Sector 10 & 12	28.566045	77.477534
35	Near Haldoni Chowk	28.533333	77.443807
36	Near Ek Murti Gol Chakkar (Techzone-4 Itehra)	28.60404	77.42809
37	Near RozaYakubpur Gol Chakkar	28.60595	77.456435
38	Near Sector-2A	28.380849	77.447994
39	Near Sector-Techzone-07	28.581337	77.465574
40	Vaidpura (Near KhairPur Rotary)	28.576709	77.468288
41	Vaidpura (Near Saini Rotary)	28.576715	77.46829

42	Chouganpur (Near D-Park)	28.54726	77.463244
43	Chouganpur (Near Rotary)	28.54836	77.461112
44	Sector-16B Near SKS	28.565086	77.450999
45	Near Roja Jalalpur	28.570209	77.449096
46	Saini1	28.56319	77.489206
47	Saini2	28.565208	77.490746
48	Bhuda	28.533034	77.504763
49	Badalpur	28.596685	77.5029972