

A Report On
**“Assessment of Pollution of Drains Carrying
Sewage/ Industrial Effluent Joining River Ganga
and its Tributaries (Kali-East/Ramganga)
between Haridwar (Down) to Kanpur (Down)”**



**Phase -I, Segment-B
(Haridwar to Kanpur)
(In the matter of M.C Mehta Vs. Union of India)**

**Submitted to:
Hon'ble National Green Tribunal (NGT)
(27 March, 2017)**

-BY-

**Uttar Pradesh Jal Nigam,
Uttar Pradesh Pollution Control Board,
National Mission for Clean Ganga, MoWR, RD & GR
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**BEFORE THE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI
ORIGINAL APPLICATION NO. 200/2014**

**IN THE MATTER OF
M.C. MEHTA
VS
UNION OF INDIA & ORS.**

AND

ANIL KUMAR SINGHAL **APPLICANT**
UNION OF INDIA & ORS. **VS** **RESPONDENT(S)**

AND

SOCIETY FOR PROTECTION OF ENVIRONMENT **APPLICANT**
& BIODIVERSITY & ANR. **VS**
UNION OF INDIA & ORS. **RESPONDENT (S)**

**Compliance Statement to the Hon'ble National Green Tribunal (NGT) order
dated 19th October, 2016**

Regarding

**“Assessment of pollution of drains carrying sewage /industrial effluent joining
River Ganga and its Tributaries (Kali- East/Ramganga) between Haridwar
Downstream to Kanpur Downstream (Segment B, Phase - I)**

Submitted by

Uttar Pradesh Jal Nigam

Uttar Pradesh Pollution Control Board

**National Mission for Clean Ganga
(Ministry of Water Resources, River
Development & Ganga Rejuvenation)**

**Central Pollution Control Board
(Ministry of Environment, Forest & Climate
Change)**

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1. Introduction:

The main causes attributed to the Pollution of River Ganga are due to disposal of industrial and domestic sewage effluent directly by drains or indirectly through tributaries. The storm water drains designated to flood-out the storm water during rainy season, are now being used for disposal of sewage and trade effluents which ultimately joins River Ganga.

These drains exert pollution load into River Ganga in terms of Biochemical Oxygen demand (BOD) and Faecal Coliform Bacteria. There are possibilities that the drains may dispose toxic pollutants like metals and pesticide which they may receive from catchment area.

Therefore, Assessment of Pollution of the drains is essential and in this context CPCB which has presented data on drains before the Hon'ble Tribunal and was further directed on 19.11.2016 for fresh survey and analysis by a committee.

2. The Earlier Report:

The CPCB has placed a report on the drains joining River Ganga which was reviewed by the Hon'ble Tribunal in the hearing held during 19th to 25th October, 2016. CPCB has reported that based on its survey, there were 30 drains joining River Ganga Directly. However, in the report the three drains of Farrukhabad were missed inadvertently, so accordingly to CPCB, the total drains seen physically were 33. Further, UP Jal Nigam has informed more number of drains.

3. Order of Hon'ble Tribunal:

The Hon'ble National Green Tribunal (NGT) in the Order dated 19th October, 2016 directed that the Member Secretary, CPCB, Chief Engineer of U.P. Jal Nigam, Senior most Chief Environmental Officer of U.P. Pollution Control Board and representative from the Ministry of Water Resources shall personally visit the area falling in Segment 'B' of Phase-I. They will identify how many drains join river Ganga or its tributaries and make observations in relation to quantum and quality of effluent that is going to river Ganga or its main tributaries through drains. Let this report be submitted before the next date of hearing.

4. Process of Re-assessment:

In compliance to the Hon'ble Tribunal, CPCB immediately coordinated with Uttar Pradesh Pollution Control Board (UPPCB), the U.P Jal Nigam and National Mission for Clean Ganga (NMCG) and deputed the inspection teams to physically inspect each drain joining River Ganga and its main tributaries, Kali-East and Ramganga. The Member Secretary, CPCB has also crosschecked the drains and the River Kali-East and Ganga. These locations include i.e. Kadrabad Drain (Kali-East), Chhoiya Drain (Kali-East), Fuldehra (Ganga), Ganga (Brij Ghat, Poonth) and Kali East at Hapur.

During the re-assessment of drains, identified drains have been segregated into the following classes;

- A. Drains carrying only storm water/irrigation water
- B. Drains carrying sewage/industrial effluents or mixed effluents
- C. The drains which are Tapped/dry

5. Procedures and Methods for Flow measurement, Sampling and Analysis of Samples

The Central Pollution Control Board (CPCB) collected samples from the drains and followed the Standard Method (American Public Health Association and approved protocols under National Accreditation Board for Laboratories). The samples were preserved for Heavy Metals and Pesticides prior to their instrumental analysis. The Ball float method was adopted for instantaneous flow measurement and accordingly, the flow of drains has been expressed in Million Litre per Day (MLD).

6. Findings:

Based on the re-assessment of drains and as per the directions of the Hon'ble Tribunal, the following are the findings/observations and the conclusion (with suggestions).

7. Drains joining River Ganga:

As per the recently carried out survey (During 25th October- 4th November, 2016 and during 6th – 7th December, 2016) the details of each

drain visited by the joint teams along with sample analysis results and the pictures are given in **Annexure –III to VI**.

7.1 Ganga:

There are 30 drains meeting Ganga directly in this Segment and have been physically seen by the joint inspection teams except 2 drains namely Airforce nalla, Cantt nalla.

Except Bagad River all the other rivers namely Banganga, Malan, Sot and Ishan have not been considered as drains due to its flow and characteristics. In addition, small drains having less than 1.0 MLD flow, measured by both Joint Inspection team and UP Jal Nigam at different occasions have not been considered as drain.

Out of 30 drains, 3 drains were found to be tapped. The details of drains joining river Ganga during the present survey are as under:

Drains Discharging into River Ganga								
Sl. No.	Catchment area	Name of New Drain	Tapped/ Partly Tapped/ /Dry	Standing / Flow	Flow (MLD) [As per Joint inspection]	BOD (mg/l) [As per the joint visit]	Pollution Sources	Remarks
1.	Bijnor	Hemraj Drain	X	Flow	91	5	Domestic	Contains raw water of barrage
2.		Chhoiya Drain	X	Flow	138	7	Mixed	Excess flow detected during joint inspection seems to emanate from canal escape water discharge.
3.	Gajrola and Babrala	Bagad River*	X	Standing	-	282	Industrial	
4.	Garh	Garh Drain	X	Flow	13	4	Domestic	
5.		Fuldehra Drain	X	Flow	14	42	Mixed	
6.	Anupsahar	Anupsahar STP Drain-1	X	Flow	1	26	Domestic	
7.		Anupsahar STP Drain-2	X	Flow	1	19	Domestic	
8.	Farrukhabad	Bhairoghat drain (Tokaghat)	X	Flow	22	28	Mixed	
9.		Dhinapur drain	X	Flow	2	35	Mixed	
10.		Hathikhana Nala	X	Flow	18	23	Domestic	
11.		Bargadiya Ghat drain	X	Flow	4	35	Domestic	
12.		Cantt Nalla	X	Flow	Not Monitored		Domestic	
13.	Kanpur	Permiya Nala	X	Flow	98.28	138	Domestic	Backwash water from WTP and discharge from escape channel of Singhpur feeder
14.		Ranighat drain	Tapped	X	1	173	Domestic	
15.		Sisamau Nala	X	Flow	130	83	Mixed	
16.		Tefco Nala	Partly tapped	Flow	-	Sample not taken	Domestic	

Drains Discharging into River Ganga								
Sl. No.	Catchment area	Name of New Drain	Tapped/ Partly Tapped/ /Dry	Standing / Flow	Flow (MLD) [As per Joint inspection]	BOD (mg/l) [As per the joint visit]	Pollution Sources	Remarks
17.		Parmath drain	Partly tapped	Flow	1.78	Sample not taken	Domestic	
18.		Muir drain	X	Flow	8.45	85	Domestic	
19.		Police line drain	Tapped	X	-	-	Domestic	
20.		Jail drain	Tapped	X	-	-	Domestic	
21.		Golaghat Nala	X	Flow	1	143	Domestic	
22.		Bhagwatdas / Guptarghat Nala	X	Flow	12	95	Domestic	
23.		Satti Chaura	X	Flow	2	57	Domestic	
24.		Dabka Nalla-3 (Dabka nala)	X	Flow	Could not be measured due to backflow	RW	Domestic	
25.		Shetla Bazar	X	Flow	16	533	Mixed	
26.		Budhiya ghat Drain	Partly tapped	Flow	7	523	Mixed	Pumping station 4 was not working at the time of inspection
27.		Wazidpur Nalla	Partly tapped	Flow	12	870	Mixed	
28.		Airfoce Nala	Dry	X	Not monitored	X	Domestic	
29.		City Jail Drain	X	Flow	86	109	Mixed	Industrial effluent from Bunther and domestic waste from Manwara
30.		Loni Drain	X	Flow	22	736	Mixed	
	Total	30	3 T, PT 4 & D 1	01 ST & 24 FL	701			

RW- Result Awaited, PT – Partly Tapped as informed by UP Jal Nigam, D- Dry

7.2 Ramganga:

The joint teams have inspected 25 drains discharging effluents into River Ramganga. The details of drains joining river Ramganga as presented earlier and during the present survey are as under:

Drains Discharged into River Ramganga							
Sl. No.	Catchment area	Name of New Drain	Tapped / Dry	Standing / Flow	Flow (MLD) as per Joint inspection	BOD (mg/l) As per the joint visit	Pollution Sources
1.	Dhampur and Bijnor	Nohra Drain (Nasiya Drain)	X	Flow	15	3	Mixed
2.	Rampur	Rampur Drain	X	Flow	34	58	Mixed
3.	Moradabad	Moradabad drain (Karula drain)	X	Flow	57	44	Mixed
4.		Nawabpura Drain 1 st	X	Flow	18.14	131	Domestic
5.		Nawabpura Drain 2 nd	X	Flow	4.32	193	Domestic
6.		Vivekanand Hospital Drain (Left)	X	Flow	0.11	317	Domestic
7.		Vivekanand Hospital Drain (Right)	X	Flow	7.96	19	Domestic
8.		MIT Drain	X	Flow	18.36	107	Domestic
9.		Moksh Dham Drain	X	Flow	15.75	68	Domestic
10.		TDI City Drain	X	Flow	4.84	72	Domestic
11.		Chakkar Ki Milak (Mukarampur)	X	Flow	1.04	148	Domestic
12.		Jigar Colony	X	Flow	11.41	236	Domestic
13.		Katghar Railway Station Drain	X	Flow	Full of solid waste flow could not be measured.	173	Mixed
14.		Barbalan Drain	X	Flow	-do-	178	Mixed
15.		Kudaghar Drain	X		11.70	186	Domestic
16.		Jama Masjid Left Drain	X	Flow	Full of solid waste flow could not be measured	108	Mixed
17.		Jama Masjid Right Drain	X	Flow	-do-	180	Domestic
18.		Ghosiyar Drain	X	Flow	6.50	1.70	Domestic
19.		Jhabbu Ka Nala	X	Flow	20.70	165	Domestic
20.		Lalbagh Drain	X	Flow	4.90	267	Domestic
21.		Daheria/ Dateria Drain	X	Flow	20.40	192	Domestic
22.		Prabhat Nagar drain (near Chandausi Road)	X	Flow	Full of solid waste flow could not be measured And confluence with Katghar railway station drain		Mixed
23.	Bareilly - Aligarh to Kannauj	Deveranaiya Nala (River) (Club)	X	Flow	287	40	Mixed
24.		Chawri Nala (Chodari)	X	Flow	19	26	Domestic
25.		Nakatiya Nala (River)	X	Flow	170	24	Mixed
	Total	25	T-0	F-25	728		

Sub-tributaries were not considered.

7.3 Kali-east:

There are 26 drains meeting Kali-east and joint teams have inspected these drains except Sugar Mill nalla in Katauli. Out of these 26 drains, 3 found to be dry.

The details of drains joining river Kali-east as presented earlier and during the present survey are as under:

Drains Discharged into River Kali-east								
Sl. No.	Catchment area	Name of New Drain	Tapped /Dry	Standing /Flow	Flow (MLD) as per Joint inspection	BOD (mg/l) As per the joint visit	Pollution Sources	Remarks
1.	Khataouli	Sugar mill nala	X	Flow	Not Monitored	-	Industrial	
2.	Meerut	AbuNallah-1	X	Flow	60	55	Mixed	
3.		AbuNallah-2	X	Flow	244	51	Mixed	
4.		Slaughter House Drain /Odean Nallah	X	Flow	175	182	Mixed	
5.	Hapur	Chhoiya Drain	X	Flow	X	18	Mixed	
6.		Hapur Drain	X	Flow	28	300	Mixed	
7.		Hapur Drain-1 (City drain)	X	Flow	5	41	Mixed	
8.	Modinagar and Meerut	Kadarabad Drain	X	Flow	49	73	Mixed	
9.	Gulaothi	Gulaothi Drain	X	Flow	7	139	Mixed	
10.	Bulandshahar	Maman Road Nalla (Bulandshahr 1)	X	Flow	147	103	Domestic	Flow detected 86.4 MLD on 21.12.2016 by Joint inspection of UPPCB and UPJN
11.		Adil nagar Nala	X	Flow	129.35	97	Domestic	Flow detected 15.6 MLD on 21.12.2016 by Joint inspection of UPPCB and UPJN
12.		Chandbari Road (Bulandshahr II)	X	Flow	107.25	70	Domestic	Flow detected 91 MLD on 21.12.2016 by Joint inspection of UPPCB and UPJN
13.		Cheel ghat	X	Flow	1.22	49	Mixed	
14.		Narshal ghat	X	Flow	1.87	336	Domestic	
15.		Adil Nagar 2	Dry	X	X	X	Domestic	
16.		Kasai Bada	X	Flow	7.3	103	Domestic	
17.		Faisalabad road	X	Flow	3.77	97	Domestic	
18.		Behind Shanidev mandir	Dry	X	X	X	Domestic	
19.		Devipura	X	Flow	3.79	70	Domestic	
20.		Bridge Dhameda Road	X	Flow	1	88	Domestic	
21.	Behind chamunda mandir	X	Flow	0.4	41	Domestic		
22.	Debai	Neem Nala	Dry	X	X	X	Domestic	
23.	Amapur	Kasganj drain	X	Flow	9	123	Domestic	

Drains Discharged into River Kali-east

Sl. No.	Catchment area	Name of New Drain	Tapped /Dry	Standing /Flow	Flow (MLD) as per Joint inspection	BOD (mg/l) As per the joint visit	Pollution Sources	Remarks
24.	Kannauj	Patta Nala	X	Flow	11	31	Mixed	
25.		Chhemkali temple to Nadangapur village (Adanga nalla)	X	Flow	4.36	19.2	Domestic	
26.		Tammi house to Sadkapur Village (Tammi nalla)	X	Flow	1.22	39.60	Domestic	
Total		26	3 D	23 F	996			

7.4 River Pandu:

Five drains discharging into River Pandu in the Kanpur region have also been inspected by the joint teams. The details are as follows;

Drains Discharged into Pandu River							
Sl. No.	Catchment area	Name of New Drain	Tapped/Partly Tapped/Dry	Standing/Flow	Flow (MLD) as per Joint inspection	BOD (mg/l) As per the joint visit	Pollution Sources
1.	Kanpur	Panki Nala (Thermal power)	X	Flow	74.17	14	Mixed
2.		ICI Nala	X	Flow	19	43	Mixed
3.		Ganda Nala	Partly tapped	Flow	136.81	67	Domestic
4.		COD Nala	X	Flow	78.62	55	Mixed
5.		Halwa Khand Nala	Diverted to COD drain, however overflow goes to Pandu	Flow	40.49	82	Domestic
	Total	5	PT 1	F 5	349		

PT- Partly Tapped, F- Flow,

8. Observations:

- It has been observed there are 30 drains joining River Ganga between Haridwar to Kanpur down (Unnao) directly, 3 drains are tapped, 4 drains are partly tapped and 1 is found to be dry or being used for irrigation.
- There are 25 numbers of drains joining River Ramganga. Due to solid waste dumping; flow of the 4 drains could not be measured.
- There are 26 drains joining River Kali-East directly, out of which 3 drains found to be dry.
- There are 5 drains joining river Pandu, 1 drain is partly tapped.
- It has been observed that River Ganga is receiving 3048MLD waste water including River Banganga. However, from the 30 drains 701 MLD of waste water is being discharged into River Ganga directly.
- Except 3 drains (Hemraj, Garh and Bargariya Ghat) all the other drains joining directly into River Ganga indicate presence of pesticides.
- Four drains of Kanpur carrying high concentration of Chromium ranging from 2 mg/l to 84 mg/l.
- Arsenic was found above permissible limits of drinking water in one drain (Garh), Cadmium in one drain (Wazidpur Nalla), Lead was also found in five drains.

9. Suggestions (proposed):

- a. All the drains should have flow measuring system before they join River Ganga.
- b. The custodians of the drains should clean the drains regularly and filthy material should be disposed off properly.
- c. Effluent characteristics should be monitored on monthly basis.
- d. An intermediate method should be adopted for treating sewage and industrial effluents flowing in the drains.
- e. Wherever possible and as per the availability of land, sewage treatment plants should be set up and the treated effluents should meet the norms (BOD<10 mg/l and Faecal Coliform Bacteria < 230 MPN).
- f. Treated effluent, as far as possible and feasible, can be used for industrial and non-potable purposes.
- g. Treated water can also be used for sprinkling on dusty roads and for growing grass to suppress dust emissions.
- h. Treated sewage effluents (free from metals and pesticides) can be used for aquaculture (Fish culture).

Annexures

I. Summary Statement of Drains

(Drains in Segment -B Phase-I, Haridwar D/S to Kanpur D/S)

Pollution Sources	River							
	Ganga		Ramganga		Kali East		Pandu River	
	No. of drains	Flow (MLD) Joint Visit	No. of drains	Flow (MLD) Joint Visit	No. of drains	Flow (MLD) Joint Visit	No. of drains	Flow (MLD) Joint Visit
Domestic	19	252	16	165	15	416	02	177
Effluent	01	Not Measured (Standing)	00	NA	01	Not Monitored	00	-
Mixed	10	449	09	563	10	580	03	172
No. of drains	30	701	25	728	26	996	5	349
Total	86 Drains	Total flow as per joint inspection 2774 MLD						

II. List of Drains (Old/New) Joining River Ganga, Kali-East, Ramganga and Pandu (Haridwar D/S to Kanpur D/S)

Drains Discharging into River Ganga									
Sl. No	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tappe d /Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
1.	-	Sukratal	Banganga River	Banganga River	X	Flow	2347	Not measured	Banganga river (carries flow from u/s of Shukratal) meets Ganga river near Shukratal. Outside municipal limit, hence not measured.
2.	-	Bijnor	Hemraj Drain	1. Hemraj Drain	X	Flow	91	Not measured	Hemraj drain (Bahaya drain) meets river Ganga about 10 kms. d/s of Hemraj colony. Outside municipal limit, hence not measured.
3.	Bijnor		Bijnor Sewage Drain	X	Discharge into Hemraj Drain		-	6.4	Discharge of other 4 drains of the town flows into different ponds, hence not shown in the table.
4.	Nazibabad		Malan River	Malan River	X	Flow	100	5.84	4 drains (total discharge of 4 drains within the town shown in the table) meet river Malan (Milini) which meets river Ganga at Shahjad pur Ahapmali, Raoli road, Bijnor about 38 kms. d/s of Najibabad.
5.	Nazibabad		Chhoiya Drain	2.Chhoiya Drain	X	Flow	138	4.65	1 drain (discharge of drain within the town shown in the table) meets Chhoiya river, which meets river Ganga at Rahman pur Khadar about 78 kms. d/s of Najibabad.
6.	-		Gajrola and Babrala	Bagad River	3. Bagad Drain (River)	X	Standing	-	Not measured
7.	Garh Mukteshwar	Garh	Garh Drain	4. Garh Drain	X	Flow	13	4	

Drains Discharging into River Ganga									
Sl. No	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tappe d /Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
8.	-		Fuldehra Drain	5.Fuldehra Drain	X	Flow	14	Not measured	Fuldehra drain meet Syana escape, which meets river Ganga at Pooth village. Outside municipal limit, hence not measured.
9.	Budaun	Badaun	Badaun Sewage Drain	X	Discharge into Sot River		-	Not measured	Not accounted for earlier.
10.	-		Sot River	Sot River	X	Flow	60	Not measured	Discharge is used for irrigation, not meeting in river Ganga. Outside municipal limit, hence not measured.
11.	Anupshahr	Anupsahar	Anupsahar STP Drain-1	6.Anupsahar STP Drain-1	X	Flow	1	0.81	Effluent discharges into wetland
12.	Anupshahr		Anupsahar STP Drain-2	7. Anupsahar STP Drain-2	X	Flow	1	1.75	Effluent discharges into river Ganga
13.	Farrukhabad	Farrukhabad	Bhairoghat drain	8. Bhairoghat drain (Tokaghat)	X	Flow	22	23.85	Two drains (total discharge of two drains shown in the table) merge into one.
14.	-		Dhinapur drain	9. Dhinapur drain	X	Flow	2	Not measured	Dhinapur drain is beyond city limit.
15.	Fatehgarh		X	10. Hathikhana Nala	X	Flow	18	3.44	
16.	Fatehgarh		Bargadiya Ghat drain	11. Bargadiya Ghat drain	X	Flow	4	1.31	
17.	Fatehgarh		X	12. Cantt Nalla	X	Flow	Not Monitored	6.88	

Drains Discharging into River Ganga									
Sl. No	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tappe d /Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
18.	Bareilly	Bareilly - Aligarh to Kannauj	Deveranai ya Nala	X		Discharge into Ramganga			Included in the list of river Ramganga
19.	Bareilly		Chawri Nala	X		Discharge into Ramganga			Included in the list of river Ramganga
20.	Bareilly		Nakatiya Nala	X		Discharge into Ramganga			Included in the list of river Ramganga
21.	Kasganj		Kasganj drain	X		Discharge into Kali East			Included in the list of river Kali East
22.	Kannauj		Patta Nala	X		Discharge into Kali East			Included in the list of river Kali East
23.	-		Cherat drain	X		Discharge into Yamuna		-	-
24.	-		Aligarh drain	X		Discharge into Yamuna		-	-
25.	Bithoor	Bithoor	X	Brahmhavart Nala	X	Flow	Not Measured	0.12	Insignificant flow (City out fall estimated flow is less)
26.	Bithoor		X	Lakshmanghat Nala	X	Flow	0.095	0.20	Insignificant flow (City out fall estimated flow is less)
27.	Bithoor		X	Lavkush Ghat Nala	X	Flow	0.86	0.42	Insignificant flow (City out fall estimated flow is less)
28.	Bithoor		X	Bhunni Ghat Nala	X	Flow	0.63	0.48	Insignificant flow (City out fall estimated flow is less)
29.	Bithoor		X	Gurudwara Ghat Nala	X	Flow	0	0.08	Insignificant flow (City out fall estimated flow is less)
30.	Bithoor		X	Kalwarighat Nala	X	Flow	0.76	0.30	Insignificant flow (City out fall estimated flow is less)
31.	Bithoor		X	Peshwaghat Nala	X	Flow	0.87	0.10	Insignificant flow (City out fall estimated flow is less)

Drains Discharging into River Ganga

Sl. No	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tapped /Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
32.	Bilhaur	Bilhaur		Ishan river		Flow	Not monitored	4.06	4 drains (discharge of 4 drains within the town shown in the table) of Bilhaur town meet Ishan river at different points, Ishan river meets Ganga river about 10 kms. away upstream of Kanpur.
33.	Kanpur	Kanpur	Permiya Nala	13. Permiya Nala	X	Flow	98.28	4.07	5 drains meet Permiya nala, which along with Nawabganj nala meet Ganga river at the same point. (discharge of 6 drains within the town shown in the table) Backwash water from WT and discharge from escape channel of Singhpur.
34.	Kanpur		X	14. Ranighat drain	tapped	X	1	-	No flow due to tapping in STP
35.	Kanpur		Sisamau Nala	15. Sisamau Nala	X	Flow	130	143	
36.	Kanpur		X	16. Tefco Nala	Partly tapped	X	-	0.43	
37.	Kanpur		X	17. Parmath drain	Partly tapped	Flow	1.78	1.78	Flow (Could not be measured) Underground as per CPCB
38.	Kanpur		X	18. Muir drain	X	Flow	8.45	3.13	
39.	Kanpur		X	19. Police line drain	tapped	X	-	-	No flow due to tapping in STP
40.	Kanpur		X	20. Jail drain	tapped	X	-	-	No flow due to tapping in STP
41.	Kanpur		Golaghat Nala	21. Golaghat Nala	X	Flow	1	1	

Drains Discharging into River Ganga

Sl. No	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tapped /Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam	
42.	Kanpur		Bhagwatdas Nala	22.Bhagwatdas / Guptarghat Nala	X	Flow	12	2.31		
43.	Kanpur		Satti Chaura	23.Satti Chaura	X	Flow	2	2		
44.	Kanpur		Dabka Nalla-1	Dabka Nalla-1	-	X	-	1.26	Also known as Golf club nala-I. Merged into Dabka Nalla-3 (Dabka nala)	
45.	Kanpur		Dabka Nalla-2	Dabka Nalla-2	-	X	-	0.4	Also known as Golf club nala-II. Merged into Dabka Nalla-3 (Dabka nala)	
46.	Kanpur		Dabka Nalla-3	24.Dabka Nalla-3 (Dabka nala)	X	Flow	Flow could not be measured due to back flow	1.23	Also known as Dabka nala.	
47.	Kanpur		Shetla Bazar	25.Shetla Bazar	X	Flow	16	5.75	Also known as Bangalighat nala.	
48.	Kanpur		X	26.Budhiya ghat Drain	Partly tapped	Flow	7	2.34		
49.	Kanpur		Wazidpur Nalla	27.Wazidpur Nalla	Partly tapped	Flow	12	7.68		
50.	Kanpur		X	28.Airfoce Nala	Dry	X	Not Monitored	Not measurable		
51.	Kanpur		X	Panki Nala	Discharge into Pandu			Included in the list of river Pandu.		
52.	Kanpur		X	ICI Nala	Discharge into Pandu			Included in the list of river Pandu.		
53.	Kanpur		X	Ganda Nala	Discharge into Pandu			Included in the list of river Pandu.		

Drains Discharging into River Ganga									
Sl. No	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tappe d /Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
54.	Kanpur		X	COD Nala	Discharge into Pandu			Included in the list of river Pandu.	
55.	Kanpur		X	Halwa Khand Nala	Discharge into Pandu			Included in the list of river Pandu.	
56.	Gangaghat (Shukla Ganj)	Unnao	X	Manohar Nagar Drain- 1	X	Flow	Negligible flow	0.061	Meets Ganga river downstream of Unnao. Insignificant flow (City out fall estimated flow is less)
57.	Gangaghat (Shukla Ganj)		X	Manohar Nagar Drain- 2	X	Flow	Negligible flow	0.163	Meets Ganga river downstream of Unnao. Insignificant flow (City out fall estimated flow is less)
58.	Gangaghat(Shukla Ganj)		X	Railway bridge Drain	X	Flow	Negligible flow	0.51	Meets Ganga river downstream of Unnao. Insignificant flow (City out fall estimated flow is less)
59.	Gangaghat (Shukla Ganj)		X	Indranagar Drain	X	Flow	Negligible flow	2.01	Meets Ganga river downstream of Unnao. Insignificant flow (City out fall estimated flow is less)
60.	Gangaghat (Shukla Ganj)		X	Ganga Vishnu Drain	X	Flow	Negligible flow	0.09	Meets Ganga river downstream of Unnao. Insignificant flow (City out fall estimated flow is less)
61.	Unnao		City Jail Drain	29. City Jail Drain	X	Flow	86	9.33	Also known as Dakari drain, drain meets Ganga river downstream of Unnao. Insignificant flow (City out fall estimated flow is less)
62.	Unnao		Loni Drain	30. Loni Drain	X	Flow	22	Not measured	Drain meets Ganga river upstream of Rai Bareilly. Insignificant flow (City out fall estimated flow is less)
Total			33	30			3212	253	

Drains Discharged into River Ramganga									
Sl. No.	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tapped / Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
1.	Seohara	Dhampur and Bijnor	Nohra Drain (Nasiya Drain)	1. Nohra Drain (Nasiya Drain)	X	Flow	15	Not measured	Not considered earlier,
2.	-	Afzalgarh	Dwarika Sugar mill Drain	X	Discharge Rachna River tributaries of Ramganga		-	Not measured	Outside municipal limit
3.	Rampur	Rampur	Rampur Drain	2. Rampur Drain	X	Flow	34	33	5 drains (total discharge of 5 drains shown in the table) merge into one drain, i.e., Rampur drain (also known as Stadium nala) which meets Kosi river and then Ram Ganga river near Madarpur.
4.	Nagina			Khoh river	X	Flow	Not Monitored	12.86	In Nagina town, there are total 6 drains, out of which 1 drain meets Gangan river & then Ram Ganga river (meeting point already considered in Moradabad) and 5 drains (total discharge of 6 drains within municipal limit shown in the table) meet Padohi river, then Khoh river and then Ramganga river at one point.
5.	Moradabad	Moradabad	Moradabad drain	3. Moradabad drain (Karula drain)	X	Flow	57	26.11	
6.	Moradabad		X	4. Nawabpura Drain 1 st	X	Flow	18.14	1.3	

Drains Discharged into River Ramganga									
Sl. No.	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tapped / Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
7.	Moradabad		X	5. Nawabpura Drain 2nd	X	Flow	4.32	1.3	
8.	Moradabad		X	6. Vivekanand Hospital Drain (Left)	X	Flow	0.11	1.08	
9.	Moradabad		X	7. Vivekanand Hospital Drain (Right)	X	Flow	7.96	2.61	
10.	Moradabad		X	8. MIT Drain	X	Flow	18.36	7.5	
11.	Moradabad		X	9. Moksh Dham Drain	X	Flow	15.75	7.22	Also known as C.L. Gupta Eye Institute drain
12.	Moradabad		X	10. TDI City Drain	X	Flow	4.84	4.86	
13.	Moradabad		X	11. Chakkar Ki Milak (Mukarampur)	X	Flow	1.04	2.5	
14.	Moradabad		X	12. Jigar Colony	X	Flow	11.41	2.59	
15.	Moradabad		X	13. Katghar Railway Station Drain	X	Flow	Full of solid waste flow could not be measured	1.3	
16.	Moradabad		X	14. Barbalan Drain	X	Flow	-do-	1.73	
17.	Moradabad		X	15. Kudaghar Drain	X		11.70	6.05	

Drains Discharged into River Ramganga									
Sl. No.	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tapped / Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
18.	Moradabad		X	16. Jama Masjid Left Drain	X	Flow	Full of solid waste flow could not be measured	0.5	
19.	Moradabad		X	17. Jama Masjid Right Drain	X	Flow	Full of solid waste flow could not be measured	0.9	
20.	Moradabad		X	18. Ghosiyani Drain	X	Flow	6.50	1.3	
21.	Moradabad		X	19. Jhabbu Ka Nala	X	Flow	20.70	3.46	
22.	Moradabad		X	20. Lalbagh Drain	X	Flow	4.90	1.73	
23.	Moradabad		X	21. Daheria/ Dateria Drain	X	Flow	20.40	3.02	
24.	Moradabad		X	22. Prabhat Nagar drain (near Chandausi Road)	X	Flow	Full of solid waste flow could not be measured	1.73	
25.	Moradabad		X	Chandausi Road left side drain	Meets River Gaagan			Dry	Gaagan river meets Ramganga river at one point.
26.	Moradabad		X	Chandausi Road Right side drain	Meets River Gaagan			2.98	
27.	Moradabad		X	Delhi Road left side drain	Meets River Gaagan			2.09	

Drains Discharged into River Ramganga									
Sl. No.	Name of town	Catchment area	Name of Old Drain	Name of New Drain	Tapped / Dry	Standing / Flow	Flow (MLD) as per Joint inspection	Average flow (MLD) As per UP Jal Nigam	Remarks of Jal Nigam
28.	Moradabad		X	Delhi Road Right side drain	Meets River Gaagan			4.86	
29.	Bareilly	Bareilly - Aligarh to Kannauj	X	23.Deveranaiya Nala (Club)	X	Flow	287.44	15.678	10 drains within municipal limit meet Deveranaiya (Kila) river, which meets Ram Ganga river about 5 kms. from Bareilly in village Sarai talfi.
30.	Bareilly		X	24.Chawri Nala (Chodari)	X	Flow	19	1.38	Chawri (Chobari) nala meets Ram Ganga river about 8 kms. from Bareilly near Bareilly Cantt.
31.	Bareilly		X	25.Nakatiya Nala	X	Flow	170	10.409	13 drains within municipal limit meet Nakatiya river, which meets Ram Ganga river about 20 kms. from Bareilly in village Malhpur.
Total			04	25			728	160	

Drains Discharged into River Kali East

Sl. No.	Town	Catchment area	Name of Old Drain	Name of New Drain	Tapped /Dry	Standing /Flow	Flow (MLD) as per Joint inspection	Flow (MLD) as UP Jal Nigam	
1.	-	Khataouli	X	1. Sugar mill nala		Flow	Not Monitored	5	Carries discharge of industrial waste (Sugar Mill). Nala is outside municipal limit.
2.	-		X	Antwara nala	Dry	X	Not Monitored	2.73	Small drain from village, outside municipal limit.
3.	Meerut	Meerut	AbuNallah-1	2. AbuNallah-1	X	Flow	60	40	
4.	Meerut		AbuNallah-2	3. AbuNallah-2	X	Flow	244	151	
5.	Meerut		Slaughter House Drain /Odean Nallah	4. Slaughter House Drain /Odean Nallah	X	Flow	175	187	
6.	-	Hapur	Chhoiya Drain	5. Chhoiya Drain	X	Flow	X	-	Outside municipal limit
7.	Hapur		Hapur Drain	6. Hapur Drain	X	Flow	28	6	Also known as Chhoiya drain
8.	Hapur		X	7. Hapur Drain-1 (City drain)	X	Flow	5	25	Also known as Nagar Palika office drain
9.	Modi nagar	Modinagar and Meerut	Kadarabad Drain	8. Kadarabad Drain	X	Flow	49	37	Also known as Modi nagar nala
10.	Gulaothi	Gulaothi	Gulaothi Drain	9. Gulaothi Drain	X	Flow	7	7.57	Also known as nala Md. Peer Khan, Saidpur road.
11.	Bulandshahr	Bulandshahar	Bulandshahr Drain1	10. Maman Road Nalla (Bulandshahr 1)	X	Flow	147	5.58	

Drains Discharged into River Kali East

Sl. No.	Town	Catchment area	Name of Old Drain	Name of New Drain	Tapped /Dry	Standing /Flow	Flow (MLD) as per Joint inspection	Flow (MLD) as UP Jal Nigam	
12.	Bulandshahr		Bulandshahr Drain2	11. Adil nagar Nala	X	Flow	129.35	2.06	
13.	Bulandshahr		X	12. Chandbari Road (Bulandshahr II)	X	Flow	107.25	4.74	
14.	Bulandshahr		X	13. Cheel ghat		Flow	1.22	0.5	
15.	Bulandshahr		X	14. Narshal ghat		Flow	1.87	2.03	
16.	Bulandshahr		X	15. Adil Nagar 2	Dry	X	X	0.2	
17.	Bulandshahr		X	16. Kasai Bada		Flow	7.3	0.84	
18.	Bulandshahr		X	17. Faisalabad road		Flow	3.77	3.25	
19.	Bulandshahr		X	18. Behind Shanidev mandir	Dry		X	0.2	
20.	Bulandshahr		X	19. Devipura		Flow	3.79	2.54	
21.	Bulandshahr		X	20. Bridge Dhameda Road		Flow	1	0.86	
22.	Bulandshahr		X	21. Behind chamunda mandir		Flow	0.4	0.4	
23.	Debai		Debai	X	22. Neem Nala	Dry	X	X	8.67

Drains Discharged into River Kali East									
Sl. No.	Town	Catchment area	Name of Old Drain	Name of New Drain	Tapped /Dry	Standing /Flow	Flow (MLD) as per Joint inspection	Flow (MLD) as UP Jal Nigam	
24.	Kasganj	Amapur	X	23.Kasganj drain	X	Flow	9	not measured	Not accounted for earlier.
25.	Kannauj	Kannauj	X	24.Patta Nala	X	Flow	11	10.7	
26.	Kannauj		X	25.Chhemkali temple to Nadangapur village (Adanga nalla)		Flow	4.36	2.23	
27.	Kannauj		X	26.Tammi house to Sadkapur Village (Tammi nalla)		Flow	1.22	3.42	
Total			09	26			996	509.52	

Drains Discharged into Pandu River								
Sl.No.	Name of the town	Catchment area	Name of Old Drain	Name of New Drain	Tapped /Dry	Standing/ Flow	Flow (MLD) as per Joint inspection	Flow (MLD) as UP Jal Nigam
1.	Kanpur	Kanpur	X	Panki Nala (Thermal power)	X	Flow	74.17	30
2.	Kanpur		X	ICI Nala	X	Flow	19	40
3.	Kanpur		X	Ganda Nala	Partly Tapped	Flow	136.81	55.08
4.	Kanpur		X	COD Nala	X	Flow	78.62	8.81
5.	Kanpur		X	Halwa Khand Nala	Diverted to COD drain, however overflow goes to Pandu	Flow	40.49	11.44
Total			00	05			349	145

10. Possible Reasons of difference of discharge:

- a. The ball float method has been adopted for instantaneous flow measurements of drains by joint inspection team. It may be more due to measurement at peak hours. While, average flow is generally measured by U.P. Jal Nigam based on hourly measurements through V-notch/rectangular weir.
- b. Joint inspection teams have measured the discharges before confluence Point of Ganga river or its main tributaries, while U.P Jal Nigam has measured discharges within the municipal limits of the town. There are other drains or sub-tributaries meeting outside the town.

11. Comments of UP Jal Nigam:

- a. Every drain, contributing pollution within the municipal area of the town, is important and worth considering from the point of interception & diversion, as far as it meets river Ganga or its any of the tributaries.
- b. Average flow is generally based on hourly measurements through V notch/ rectangular wier. In Meerut, Bulandshahr and Rampur, average flow is based on float method.
- c. Discharge of 14 drains of Moradabad (sl. 6, 7, 13 to 24) were measured in year 2011 at the time of preparation of sewerage project for zone-I. Discharge of all other drains were measured in year 2015
- d. Move to page after pandu river.

III. Data Sheet of Drains Joining River Ganga.

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 26.10.2016, 10:30 AM onwards

1.	Name of the Drain	:	Banganga
2.	Meeting Ganga	:	Left bank
3.	Name of the Regional Office of SPCB	:	Muzaffarnagar
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicate type of sector)	:	NA
6.	Traceable length of drain (in Km) before meeting Ganga (through google earth/map)	:	Approx. 40-50 km
7.	Catchment area		Sukratal
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 29°25'26.07"N
		Longitude	: 78° 1'5.05"E
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 5-7km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 29°29'29.3"N
		Longitude	: 77°59'24.2"E
10.	Landmarks / Address of the Location		Sukratal Bridge, confluence point between Solani and Banganga river
11.	Flow if in MLD, if zero indicate whether dry or stagnant	:	2346.53
12.	Observations	:	Banganga comes from Laksar, Haridwar, Uttarakhand.
13.	Name of all monitoring officers along with Designation		Dr. Pankaj Kumar, Scientist 'D', CPCB Dr. M. Jiban Singh, Research Associate, CPCB Sh. Neeraj Gahlawat, Project Office, NMCG Sh. A.K. Tewari, Regional Officer, Bijnor/ Muzaffarnagar, UPPCB Sh. Rajiv Tyagi, Executive Engineer, UPJN Sh. R. K. Singh, AE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	----
2.	pH	7.97
3.	BOD (mg/l)	07
4.	COD (mg/l)	15
5.	TSS (mg/l)	12
6.	TDS (mg/l)	280
7.	Cl ⁻ (mg/l)	23
8.	NH ₃ -N (mg/l)	09
9.	NO ₃ ⁻ (mg/l)	1.96
10.	DO (mg/l)*	----
11.	TC (MPN/ 100 ml)#	16x10 ²
12.	FC (MPN/ 100 ml)#	450

*For Fresh water carrying drains/ rivers
#for sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.01
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	1.32
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.14
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	----
10.	Zinc (Zn) mg/l	0.01
11.	Antimony (Sb) mg/l	----
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	--
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	BDL
10.	β- HCH	BDL
11.	γ-HCH	BDL
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point



Confluence point

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 26.10.2016& 1:30 Pm onwards

1.	Name of the Drain	:	Hemraj Drain
2.	Meeting Ganga	:	Left bank
3.	Name of the Regional Office of SPCB	:	Bijnor
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicate type of sector)	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 5-8 km
7.	Catchment area		Bijnor
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 29°22'25.67"N
		Longitude	: 78° 2'28.87"E
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 5 km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 29°22'28.4"N
		Longitude	: 78°05'08.2"E
10.	Landmarks / Address of the Location		Near Hemraj Village
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	91.260
12.	Observations	:	Hemraj Drain actually over flow of Ganga River after travelling 10-12 km it again confluence with Ganga river. Bijnor Sewage drain meets this drain.
13.	Name of all monitoring officers along with Designation	:	Dr. Pankaj Kumar, Scientist 'D', CPCB Dr. M. Jiban Singh, Research Associate, CPCB Sh. Neeraj Gahlawat, Project Office, NMCG Sh. A.K. Tewari, Regional Officer, Bijnor/ Muzaffarnagar, UPPCB Sh. Rajiv Tyagi, Executive Engineer, UPJN Sh. R. K. Singh, AE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	---
2.	pH	7.82
3.	BOD (mg/l)	5
4.	COD (mg/l)	24
5.	TSS (mg/l)	2.0
6.	TDS (mg/l)	204
7.	Cl ⁻ (mg/l)	12
8.	NH ₃ -N (mg/l)	07
9.	NO ₃ ⁻ (mg/l)	BDL
10.	DO (mg/l)*	---
11.	TC (MPN/ 100 ml)#	92x10 ⁴
12.	FC (MPN/ 100 ml)#	47x10 ³

*For Fresh water carrying drains/ rivers
#for sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.02
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.01
5.	Iron (Fe) mg/l	1.32
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.10
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	---
10.	Zinc (Zn) mg/l	0.02
11.	Antimony (Sb) mg/l	---
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	: BDL
3.	Dimethoate (µg/l)	: BDL
4.	Methyl Parathion (µg/l)	: BDL
5.	Malathion (µg/l)	: BDL
6.	Chloropyriphos (µg/l)	: BDL
7.	Methyl Parathion	: BDL
8.	Ethion (µg/l)	: BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	: BDL
10.	β- HCH	: BDL
11.	γ-HCH	: BDL
12.	δ-HCH	: BDL
13.	Total BHC (ng/l)	: BDL
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: BDL
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point



Due to eutrofication confluence point not detected

**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 26.10.2016& 12 Noon onwards

1.	Name of the Drain	:	Malan River
2.	Meeting Ganga at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Bijnor
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Please indicate type of sector)	:	Sugar, Distillery, Pulp & paper
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 140-150 km
7.	Catchment area		Bijnor
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 29°26'53.30"N
		Longitude	: 78° 3'52.61"E
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 100 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 29°26'53.1"N
		Longitude	: 78°03'59.1"E
10.	Landmarks / Address of the Location		Near Hemraj Village
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	100.00
12.	Observations	:	Malan River originated from Kotdwar (Uttarakhand) and travelled about 140-150 km and then meet in the Ganga River. It carries domestic waste of Najibabad town, Nagar Palika Parshad Kiratpur, Bijor and Nagar Panchayat Mandawar.
13.	Name of all monitoring officers along with Designation	:	Dr. Pankaj Kumar, Scientist 'D', CPCB Dr. M. Jiban Singh, Research Associate, CPCB Sh. Neeraj Gahlawat, Project Office, NMCG Sh. A.K. Tewari, Regional Officer, Bijnor/ Muzaffarnagar, UPPCB Sh. Rajiv Tyagi, Executive Engineer, UPJN Sh. R. K. Singh, AE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	---
2.	pH	8.3
3.	BOD (mg/l)	5
4.	COD (mg/l)	34
5.	TSS (mg/l)	88
6.	TDS (mg/l)	224
7.	Cl ⁻ (mg/l)	47
8.	NH ₃ -N (mg/l)	7
9.	NO ₃ ⁻ (mg/l)	0.27
10.	DO (mg/l)*	---
11.	TC (MPN/ 100 ml)#	790
12.	FC (MPN/ 100 ml)#	490

*For Fresh water carrying drains/ rivers
#for sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	2.40
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.29
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	---
10.	Zinc (Zn) mg/l	0.01
11.	Antimony (Sb) mg/l	---
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	: BDL
3.	Dimethoate (µg/l)	: BDL
4.	Methyl Parathion (µg/l)	: BDL
5.	Malathion (µg/l)	: BDL
6.	Chloropyriphos (µg/l)	: BDL
7.	Methyl Parathion	: BDL
8.	Ethion (µg/l)	: BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	: BDL
10.	β- HCH	: BDL
11.	γ-HCH	: BDL
12.	δ-HCH	: BDL
13.	Total BHC (ng/l)	: BDL
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: BDL
20.	PP'DDT	: 0.05
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point



Confluence point with Ganga River

DRAIN MONITORING FORM (Ganga)

Date & Time of sampling: 26.10.2016 (13.00hrs)

1.	Name of the Drain	:	Chhoiya Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	meets Ganga at left bank
3.	Name of the Regional Office of SPCB	:	SPCB, Bijnor
4.	Source of pollution load:	:	(Domestic/Industrial/Mixed)- Mixed
5.	If Industrial /Mixed (Please indicate type of sector)		Mixed (domestic and industrial, mainly distillery and paper industries)
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	----
7.	Catchment area		Bijnor
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 29 ⁰ 05'49.6"N
		Longitude	: 078 ⁰ 05'49.6"E
	Distance from confluence point (may the find out over google earth/map), KM		Sample taken near confluence point (at nearly 50 meter before confluence)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 29005' 49.6" N
		Longitude	: 078005'49.6"E
10.	Landmarks / Address of the Location		Near Rasulpur bhawan village, Datiyata Road, Khanpur
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Due to back flow of river, flow could not be measured (As per previous Inspection report, dated 04.10.2016, the flow was 137.8 MLD however, considering submerged flow a factor 0.5 has been applied)
12.	Observations	:	<ul style="list-style-type: none"> ❖ There was high back flow of river into the drain. ❖ The water was visibly found slightly black. ❖ Reaching confluence point was found very difficult.
13.	Urgent action required, if any	:	---
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Shri Rajeev Srivastava, ASO, SPCB-Bijnor 2. Shri Brahmanand, A.E., U.P. Jal Nigam 3. Shri Amit , Research Officer, NMCG 4. Dr Brajesh Shrivastava, Sc 'C', CPCB 5. Ms. Anshul Kumari, R.A., CPCB

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	--
2.	pH	7.73
3.	BOD (mg/l)	7
4.	COD (mg/l)	56
5.	TSS (mg/l)	33
6.	TDS (mg/l)	416
7.	Cl ⁻ (mg/l)	35
8.	NH ₃ -N (mg/l)	18
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	16x10 ³
12.	FC (MPN/ 100 ml)#	35x10 ²

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.02
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	2.2
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.32
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.02
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	-
8.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	BDL
10.	β- HCH	BDL
11.	γ- HCH	BDL
12.	δ-BHC	-
13.	Total BHC (ng/l)	-
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	-
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	0.107
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	-

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



View of confluence point



View of sampling point

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 02.11.2016 (13.00hrs)

1.	Name of the Drain	:	Bagad River (drain)	
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Does not meet Ganga, remains dry after nearly 20 Km from Gajraula.	
3.	Name of the Regional Office of SPCB	:	Bijnor	
4.	Source of pollution load:	:	Industrial	
5.	If Industrial /Mixed (Please indicate type of sector)		Industrial (Silica, Pharma and Paper industries etc.)	
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Does not meet Ganga as it remains dry after nearly 15 KM from Gajraula	
7.	Catchment area		Gajraula	
8.	Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units)	Latitude	:	
		Longitude	-	
	Distance from confluence point (may the find out over google earth/map), KM		-	
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	:	28 ⁰ 48' 23.90"N
		Longitude		078 ⁰ 12' 59.8"E
10.	Landmarks / Address of the Location		Near Jubilant industry in Gajraula, sampling point near to highway over bridge	
11.	Flow in MLD, if zero indicate whether dry or stagnant	:	flow could not be measured due to stagnant water	
12.	Observations	:	The water in the drain was found carrying industrial effluents. As per the information provided by the State officials, it originates near Dadiyal in Amroha district and after travelling to nearly 20 KM from Gajraula, it becomes dry.	
13.	Urgent action required, if any	:	----	
14.	Name of all monitoring officers along with Designation		1. Dr Brajesh Shrivastava, Sc 'C', CPCB 2. Ms. Anshul Kumari, R.A., CPCB 3. Shri Rajeev Srivastava, A.S.O., Bijnor 4. Shri D. K. Jain, E.E., U.P. Jal Nigam 5. Shri Amit, Research Officer, NMCG	

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	--
2.	pH	7.74
3.	BOD (mg/l)	282
4.	COD (mg/l)	606
5.	TSS (mg/l)	479
6.	TDS (mg/l)	7948
7.	Cl ⁻ (mg/l)	116
8.	NH ₃ -N (mg/l)	12
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	35x10 ⁵
12.	FC (MPN/ 100 ml)#	11x10 ⁵

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.02
4.	Copper (Cu) mg/l	0.03
5.	Iron (Fe) mg/l	3.85
6.	Lead (Pb) mg/l	0.02
7.	Manganese (Mn) mg/l	0.32
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.17
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.02

DRAIN MONITORING FORMAT (Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	-
8.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	0.264
10.	β- HCH	0.149
11.	γ- HCH	-
12.	δ-BHC	-
13.	Total BHC (ng/l)	-
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	BDL
19.	OP'DDT	0.109
20.	PP'DDT	0.153
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	-

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)



View of Bagad river (drain)



View of sampling point

**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 27.10.2016, 11:20 am

1.	Name of the Drain	:	Garh Drain
2.	Meeting Ganga at	:	Right bank – Ganga
3.	Name of the Regional Office of SPCB	:	Ghaziabad
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicate type of sector)	:	NA
6.	Traceable length of drain (in Km) before meeting Ganga (through google earth/map)	:	20 KM (approx.)
7.	Catchment area	:	Garh
8.	Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units)	Latitude	: 78.13648
		Longitude	: 28.766984
	Distance from confluence point (may the find out over google earth/map), KM	:	20m (approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 78.13648
		Longitude	: 28.766984
10.	Landmarks / Address of the Location	:	Near Brijghat, Garhmukteshwar, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	13.13
12.	Observations	:	1. Turbid. 2. Ichornia growth found. 3. Solid wastes were found floating with drain.
13.	Name of all monitoring officers along with Designation	:	1. Ms. Garima Dublish, Research Associate, CPCB 2. Dr. Sananda Sinha, Research Associate, CPCB 3. Sh. Ajay Sharma, Attendant, CPCB 4. Sh. Shravan Kr. Kota, Research Officer, NMCG 5. Sh. Ashutosh Yadav, Jal Nigam, UP 6. sh. Sushil Kumar, SA, Ghaziabad RO, UP

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: NA
2.	pH	: 7.58
3.	BOD (mg/l)	: 4
4.	COD (mg/l)	: 25
5.	TSS (mg/l)	: 31
6.	TDS (mg/l)	: 376
7.	Cl ⁻ (mg/l)	: 28
8.	NH ₃ -N (mg/l)	: 4
9.	NO ₃ ⁻ (mg/l)	: 0.89
10.	DO (mg/l)*	: 3.80
11.	TC (MPN/ 100 ml)#	: 92x10 ³
12.	FC (MPN/ 100 ml)#	: 35x10 ³

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: $\theta \pm 0.01$
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: BDL
5.	Iron (Fe) mg/l	: 1.15
6.	Lead (Pb) mg/l	: BDL
7.	Manganese (Mn) mg/l	: 0.15
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: NA
10.	Zinc (Zn) mg/l	: BDL
11.	Antimony (Sb) mg/l	: NA
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	BDL
10.	β-BHC	BDL
11.	γ-BHC	BDL
12.	δ-BHC	-
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 27.10.2016, 3.30 pm

1.	Name of the Drain	:	Phuldera Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Ghaziabad
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Please indicate type of sector)	:	<ul style="list-style-type: none"> • Distillery • Sugar • Food & Dairy
6.	Traceable length of drain (in Km) of drain before meeting River Ganga (through google earth/map)	:	35 KM (approx.)
7.	Catchment area	:	Garh
8.	Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units)	Latitude	: 78.17085
		Longitude	: 28.669779
	Distance from confluence point (may the find out over google earth/map), KM	:	17 KM (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 78.125984
		Longitude	: 28.690947
10.	Landmarks / Address of the Location	:	Near Bahadurgarh vill. After confluence of drain into Siyana escape
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	13.70
12.	Observations	:	Turbid. Ichornia growth found. Solid wastes were found floating with drain.
13.	Urgent action required, if any	:	Solid wastes floating with the drain should be stopped immediately.
14.	Name of all monitoring officers along with Designation	:	<ol style="list-style-type: none"> 1. Ms. Garima Dublish, RA, CPCB 2. Dr. Sananda Sinha, RA, CPCB 3. Sh. Ajay Sharma, Attendant, CPCB 4. Sh. Shravan Kr. Kota, Research Officer, NMCG 5. Sh. Ashutosh Yadav, Jal Nigam, UP 6. sh. Gupta, Ghaziabad RO, UP

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: N/A
2.	pH	: 7.25
3.	BOD (mg/l)	: 42
4.	COD (mg/l)	: 96
5.	TSS (mg/l)	: 51
6.	TDS (mg/l)	: 268
7.	Cl ⁻ (mg/l)	: 27
8.	NH ₃ -N (mg/l)	: 7
9.	NO ₃ ⁻ (mg/l)	: 1
10.	DO (mg/l)*	: NIL
11.	TC (MPN/ 100 ml)#	: 16x10 ⁸
12.	FC (MPN/ 100 ml)#	: 11x10 ⁷

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

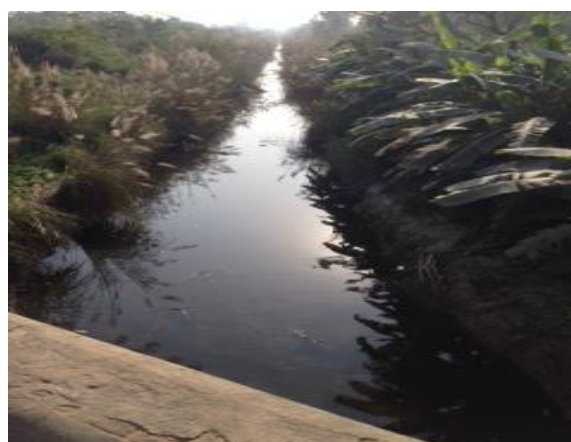
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: BDL
5.	Iron (Fe) mg/l	: 0.98
6.	Lead (Pb) mg/l	: 0.06
7.	Manganese (Mn) mg/l	: 0.24
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: N/A
10.	Zinc (Zn) mg/l	: 0.14
11.	Antimony (Sb) mg/l	: N/A
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	BDL
10.	β-BHC	0.95 (µg/l)
11.	γ-BHC	BDL
12.	δ-BHC	-
13.	Total BHC (ng/l)	0.95 (µg/l)
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	0.14 (µg/l)
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	0.14 (µg/l)

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 25.10.2016

1.	Name of the Drain	:	Sot River/ Drain
2.	Meeting Ganga	:	Left bank
3.	Name of the Regional Office of SPCB	:	Bulandshahar
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (please indicate type of sector.	:	NA
6.	Catchment area		Badaun
7	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28°01'43.65"N
		Longitude	79°06'39.76"E
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 15 km
8	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°01'53.12"N
		Longitude	79°07'05.11"E
9	Landmarks / Address of the Location		Shekhupur Pul
10	Flow if in MLD (Approx)	:	Approx. 59.720
11	Observations	:	Its water used for irrigation during its course. It becomes dry after few kilometers from Badaun city before meeting to River Ganga. River bed is being used for agriculture hence confluence point was not explored
12	Name of all monitoring officers along with Designation		1. Dr. Prashant Singh Sc. D (CPCB) 2. Dr. Sarvesh Rai Sc. C (CPCB) 3. Mr. R. K. Gupta Ex. En. U.P. Jal Nigam 4. Mr. Avichal Singh A.E. UP Jal Nigam 5. Mr. Jitendra Sharma Lab Asst. UPPCB, Bulandshahar

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: Turbid
2.	pH	: 7.90
3.	BOD (mg/l)	: 48
4.	COD (mg/l)	: 114
5.	TSS (mg/l)	: 42
6.	TDS (mg/l)	: 588
7.	Cl ⁻ (mg/l)	: 101
8.	NH ₃ -N (mg/l)	: 34
9.	NO ₃ ⁻ (mg/l)	: 2.96
10.	DO (mg/l)*	: -
11.	TC (MPN/ 100 ml)#	: 35x10 ⁵
12.	FC (MPN/ 100 ml)#	: 24x10 ⁵

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River


DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: -
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: BDL
5.	Iron (Fe) mg/l	: 20.78
6.	Lead (Pb) mg/l	: BDL
7.	Manganese (Mn) mg/l	: 0.13
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: -
10.	Zinc (Zn) mg/l	: 0.02
11.	Antimony (Sb) mg/l	: -
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: -
14.	Vanadium (V) mg/l	: -

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
8.	α-HCH	-
9.	β-HCH	0.101
10.	γ-HCH	BDL
11.	δ-HCH	BDL
12.	Total HCH (ng/l)	-
13.	Aldrin (ng/l)	BDL
14.	Diedrin (ng/l)	BDL
15.	α-Endosulfan	BDL
16.	Total Endosulfan (ng/l)	-
17.	β-Endosulfan	BDL
18.	OP'DDT	BDL
19.	PP'DDT	BDL
20.	PP'DDE	BDL
21.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**

<p>Sampling Point</p> 	<p>River bed is being used for Agriculture</p> 
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**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 26-10-2016 at 15:10 hrs.

1.	Name of the Drain	:	Anupshahr STP Drain – 1
2.	Meeting Ganga -	:	Discharging to wetland near Ganga
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (please indicate type of sector.	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Doesn't meet Ganga (meets an adjacent wetland having a tracable length of 100 m)
7.	Catchment area	:	Part of city of Anupshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: NA
		Longitude	: NA
	Distance from confluence point (may the find out over google earth/map), KM	:	NA
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°22'10.9353"
		Longitude	: 78°15'46.4341"
10.	Landmarks / Address of the Location	:	STP Complex near Chamunda
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.18
12.	Observations	:	The treated water was discharging in a wetland situated about a Kilometer away from River Ganga.
13.	Name of all monitoring officers along with Designation	:	<ol style="list-style-type: none"> 1. Dr. Sarvesh Rai, Sc. 'C', CPCB 2. Ms. Shaddha Lonarkar, RA-I, CPCB 3. Mr. Geetesh Chandra, ASO, RO, UPPCB, Bulandshahr 4. Mr. Viany Rawat, AEE, UP Jal Nigam 5. Mr. Jitendra Sharma, Lab. Assistant, RO, UPPCB, Bulandshahr

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	8.84
3.	BOD (mg/l)	26
4.	COD (mg/l)	114
5.	TSS (mg/l)	54
6.	TDS (mg/l)	704
7.	Cl ⁻ (mg/l)	80
8.	NH ₃ -N (mg/l)	16
9.	NO ₃ ⁻ (mg/l)	2.35
10.	DO (mg/l)*	NA
11.	TC (MPN/ 100 ml)#	3400
12.	FC (MPN/ 100 ml)#	2200

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	0.04
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.06
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	BDL
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	BDL
10.	β-BHC	BDL
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	0.056
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	0.056

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Outlet of STP Drain 1 (Chamunda)
(No confluence)



STP Drain 1 (Chamunda)

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 26-10-2016 at 16:00 hrs.

1.	Name of the Drain	:	Anupshahr STP Drain - 2
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (please indicate type of sector.	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 0.025
7.	Catchment area	:	Part of city of Anupshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 20'58.2207"
		Longitude	: 78 ⁰ 16'19.5027"
	Distance from confluence point (may the find out over google earth/map), KM	:	Approx. 0.03
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 20'57.8658"
		Longitude	: 78 ⁰ 16'18.3871"
10.	Landmarks / Address of the Location	:	STP Complex near Sohan Tau Ka Matth
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.08
12.	Observations	:	Treated water was discharging directly into River Ganga. However, there was a forest land situated about 250 meter away from the STP, which may be irrigated by the treated water.
13.	Name of all monitoring officers along with Designation	:	<ol style="list-style-type: none"> 1. Dr. Sarvesh Rai, Sc. 'C', CPCB 2. Ms. Shaddha Lonarkar, RA-I, CPCB 3. Mr. Geetesh Chandra, ASO, RO, UPPCB, Bulandshahr 4. Mr. Viany Rawat, AEE, UP Jal Nigam 5. Mr. Jitendra Sharma, Lab. Assistant, RO, UPPCB, Bulandshahr

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	8.94
3.	BOD (mg/l)	19
4.	COD (mg/l)	72
5.	TSS (mg/l)	36
6.	TDS (mg/l)	536
7.	Cl ⁻ (mg/l)	68
8.	NH ₃ -N (mg/l)	14
9.	NO ₃ ⁻ (mg/l)	2.34
10.	DO (mg/l)*	NA
11.	TC (MPN/ 100 ml)#	1100
12.	FC (MPN/ 100 ml)#	450

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	0.24
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.06
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	BDL
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	BDL
10.	β-BHC	BDL
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	0.055
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	0.055

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Outlet STP Drain – 2 (Sohan Tau ka Matth) Confluence with Ganga



STP Drain – 2 (Sohan Tau ka Matth)

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: Date & Time of sampling: 25 October, 2016 &
06:00PM

1.	Name of the Drain	:	Bhairoghat drain or Tokaghat drain
2.	Meeting Ganga at -	:	Right Bank
3.	Name of the Regional Office of SPCB	:	RO UPPCB, Kanpur
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (please indicate type of sector.	:	Textiles Sector
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 6-7 Km
7.	Catchment area		Lal darwaja, salawat khan, Ganga nagar, Narkasa, Dhawari, Madaar wadi, Khatakpura, Khatrana, Lingiganj
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 27 ⁰ 24'22.57"N
		Longitude	: 79 ⁰ 38'4.1"E
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 2.5 Km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 27 ⁰ 23'51.54"N
		Longitude	: 79 ⁰ 37'32.63"E
10	Landmarks / Address of the Location		Near Bhairav temple at Bhairavghat
11	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 22.1 MLD
12	Observations	:	<ol style="list-style-type: none"> 1. During monitoring it was found that a minor drain Puckapul drain carries wastewater from Jatwara, naulkha, Bajariya, Koonchabhawana, Chilpura, Saghwara, Gudaddi, Khadyaaye, Chapatti, Bhaavtola, Mathiya devi, Nunbai and Palariya area and meets to Tokaghat drain near Dharanagri. 2. It meets to river Ganga near confluence of Dhirampur drain.
13	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Rajnish Kumar Sharma, RA-I, CPCB ZO Lucknow 2. Dr. Poonam Pandey, RA-I, CPCB ZO

			Lucknow 3. Dr A. K. Mathur, AEE, UPPCB, Kanpur 4. Sh Ankit Kumar Mishra, JE, UPPCB, Kanpur 5. Sh. D.C. Dixit, Supervisor, UP Jal Nigam, Fatehgarh
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DRAIN MONITORING FORMAT

(General parameters)

Sl. No.	Parameters		Results
1.	Colour	:	-
2.	pH	:	7.67
3.	BOD (mg/l)	:	28
4.	COD (mg/l)	:	108
5.	TSS (mg/l)	:	195
6.	TDS (mg/l)	:	1082
7.	Cl ⁻ (mg/l)	:	221
8.	NH ₃ -N (mg/l)	:	37
9.	NO ₃ ⁻ (mg/l)	:	BDL
10.	DO (mg/l)*	:	-
11.	TC (MPN/ 100 ml)#	:	790000
12.	FC (MPN/ 100 ml)#	:	140000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT

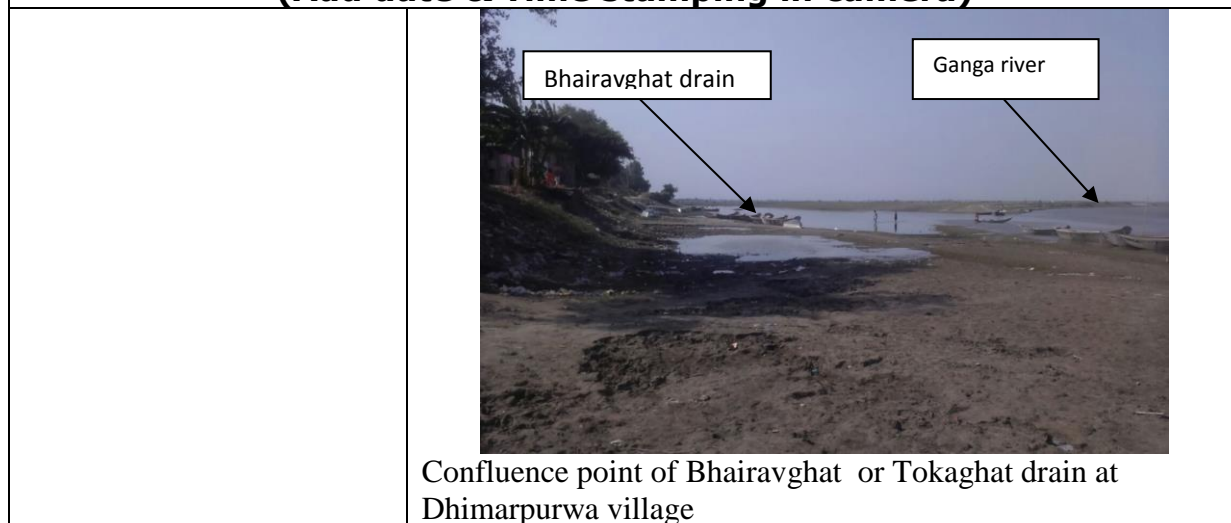
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters		Results
1.	Arsenic (As) mg/l	:	BDL
2.	Cadmium (Cd) mg/l	:	BDL
3.	Total Chromium (Cr) mg/l	:	BDL
4.	Copper (Cu) mg/l	:	-
5.	Iron (Fe) mg/l	:	1.38
6.	Lead (Pb) mg/l	:	BDL
7.	Manganese (Mn) mg/l	:	0.14
8.	Nickel (Ni) mg/l	:	BDL
9.	Mercury (Hg) mg/l	:	-
10.	Zinc (Zn) mg/l	:	0.12
11.	Antimony (Sb) mg/l	:	-
12.	Cobalt (Co) mg/l	:	BDL
13.	Selenium (Se) mg/l	:	-
14.	Vanadium (V) mg/l	:	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	0.08
10.	β-BHC	0.10
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	0.40
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 25 October, 2016 & 05:00PM

1.	Name of the Drain	:	Dhirampur drain or Dhinapur
2.	Meeting Ganga at -	:	Right Bank
3.	Name of the Regional Office of SPCB	:	RO UPPCB, Kanpur
4.	Source of pollution load:	:	Mixed (Industrial + domestic)
5.	If Industrial /Mixed (Please indicate type of sector)	:	Dairy
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 1-1.5 Km
7.	Catchment area		Parag dairy, Bahadurpur, Paanchaal ghat
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 27 ⁰ 24'22.57"N
		Longitude	: 79 ⁰ 38'4.1"E
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 0.5 km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 27 ⁰ 13'51.4"
		Longitude	: 79 ⁰ 38'4.1"
10.	Landmarks / Address of the Location		Near Parag dairy
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.62 MLD
12.	Observations	:	<ol style="list-style-type: none"> 1. It is a minor drain. 2. It is Mixed drain which carries effluent of dairy and domestic sewage. 3. During sampling wastewater appears white in colour. Which indicates that wastewater contains dairy effluent.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Rajnish Kumar Sharma, RA-I, CPCB ZO Lucknow 2. Dr. Poonam Pandey, RA-I, CPCB ZO Lucknow 3. Dr A. K. Mathur, AEE, UPPCB, Kanpur 4. Sh Ankit Kumar Mishra, JE, UPPCB, Kanpur 5. Sh. D.C. Dixit, Supervisor, UP Jal Nigam, Fatehgarh

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.34
3.	BOD (mg/l)	35.4
4.	COD (mg/l)	136
5.	TSS (mg/l)	35.4
6.	TDS (mg/l)	865
7.	Cl ⁻ (mg/l)	144
8.	NH ₃ -N (mg/l)	38.1
9.	NO ₃ ⁻ (mg/l)	3.03
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	1400000
12.	FC (MPN/ 100 ml)#	700000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.04
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.62
6.	Lead (Pb) mg/l	0.04
7.	Manganese (Mn) mg/l	0.14
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.54
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	0.07
10.	β-BHC	0.13
11.	γ-BHC	0.09
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Confluence point of drain at Dhinarpur village near confluence point of Bhairavghat drain , Farrukhabad

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25 October, 2016 & 11:00AM

1.	Name of the Drain	:	Hathikhana Nala
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Right Bank
3.	Name of the Regional Office of SPCB	:	RO, UPPCB, Kanpur
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicate type of sector)	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 3-4 Km
7.	Catchment area		Granganj, Wakarganj, Civil lines, Nawadiya, Hathikhana, Nagladi, Pull mandi, J.N.V. road, Sainik colony, Railway colony, Bholepur, Lal kothi, Officers colony
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 27 ^o 21'48.95"N
		Longitude	: 79 ^o 37'54.69"E
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 1.5 km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 27 ^o 21'21.55"N
		Longitude	: 79 ^o 37'21.13" E
10.	Landmarks / Address of the Location		Near MPS at village Hathikhana
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 18 MLD
12.	Observations	:	<ul style="list-style-type: none"> • It is partially tapped by STP Fatehgarh 2.7 MLD. • It was seen during sampling a huge amount of wastewater is taken by farmers for irrigation purpose. • During sampling time it was found that MPS was not operational due to power failure.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Rajnish Kumar Sharma, RA-I, CPCB ZO Lucknow 2. Dr. Poonam Pandey, RA-I, CPCB ZO Lucknow 3. Dr A. K. Mathur, AEE, UPPCB, Kanpur 4. Sh Ankit Kumar Mishra, JE, UPPCB, Kanpur 5. Sh. D.C. Dixit, Supervisor, UP Jal Nigam, Fatehgarh

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.76
3.	BOD (mg/l)	23.0
4.	COD (mg/l)	98.5
5.	TSS (mg/l)	43.7
6.	TDS (mg/l)	704
7.	Cl ⁻ (mg/l)	94.5
8.	NH ₃ -N (mg/l)	30.7
9.	NO ₃ ⁻ (mg/l)	1.89
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	2400000
12.	FC (MPN/ 100 ml)#	2400000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

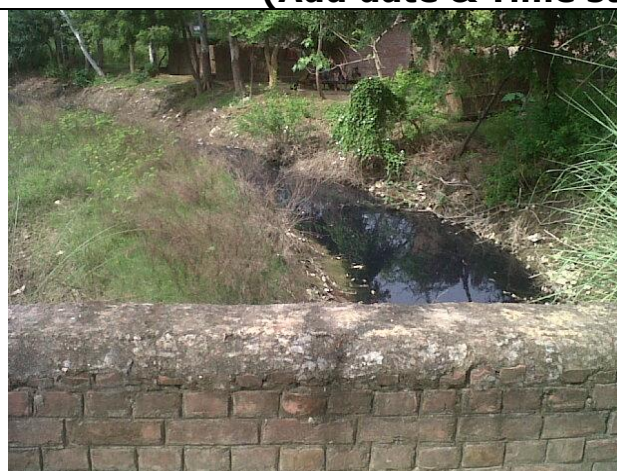
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	1.06
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.10
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.42
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Sample not collected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-BHC	0.05
10.	β-BHC	0.09
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling location



Confluence point of hathikhana drain at Gariyakhare vill

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25 October, 2016 & 02:00PM

1.	Name of the Drain	:	Bargadiyaghat drain
2.	Meeting Ganga at -	:	Right Bank
3.	Name of the Regional Office of SPCB	:	RO, UPPCB, Kanpur
4.	Source of pollution load:	:	Domestic Approx. 3.8MLD
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 1-1.5 Km
7.	Catchment area		Talaiya lane, Machli tola, Daal mandi, Rangsaan, Gaadikhana, Kasaratta, Vajaja sangat, Civil lines, Aanshik, Jagij colony
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: It becomes dried in the catchment area of River Ganga after 500 m from the sampling point & no effluent is being discharged into River Ganga.
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM		Effluent is not being discharged into River Ganga.
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 27 ⁰ 21'48.95"N
		Longitude	79 ⁰ 37'54.69" E
10.	Landmarks / Address of the Location		Near Bargad tree and Kali maa Temple
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	3.8MLD
12.	Observations	:	Drain is monitored near Bargadia ghat Temple, Fatehgarh and carries domestic wastewater from nearby areas. It becomes dry after travelling approx 500 m.
13.	Name of all monitoring officers along with Designation		1. Dr. Rajnish Kumar Sharma, RA-I, CPCB ZO Lucknow 2. Dr. Poonam Pandey, RA-I, CPCB ZO Lucknow 3. Dr A. K. Mathur, AEE, UPPCB, Kanpur 4. Sh Ankit Kumar Mishra, JE, UPPCB, Kanpur 5. Sh. D.C. Dixit, Supervisor, UP Jal Nigam, Fatehgarh

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.41
3.	BOD (mg/l)	34.5
4.	COD (mg/l)	106
5.	TSS (mg/l)	35.2
6.	TDS (mg/l)	711
7.	Cl ⁻ (mg/l)	86.5
8.	NH ₃ -N (mg/l)	34.5
9.	NO ₃ ⁻ (mg/l)	2.23
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	2200000
12.	FC (MPN/ 100 ml)#	470000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.76
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.10
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.14
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling location of Bargadiyaghat drain

After travelling approx 500 m it becomes dry

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 08.12.16 & 10:50 a.m

1.	Name of the Drain	:	Bramhavart Drain , Bithoor
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Meet to River Ganga at Right bank
3.	Name of the Regional Office of SPCB	:	UPPCB Kanpur Nagar
4.	Source of pollution load:	:	(Domestic)
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	-NA-
6.	Traceable length (in Km) before meeting Ganga River (through google earth/map)	:	Approx. 5 m
7.	Catchment area		Bramha Nagar etc.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)(River Bed)	Latitude	: N 26°36'50"
		Longitude	: E 80°16'29"
	Distance from confluence point		Approx.5 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°36'33"
		Longitude	: E 80°16'24"
10.	Landmarks / Address of the Location		Bramhavart ghat
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Not measurable (flow was very slow)
12.	Observations	:	Drain was monitored at Bramhavart ghat and carries domestic waste water from nearby areas which ultimately meet to River Ganga. At the time of inspection, the drain flow was minute (not measurable) however sample has been taken.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Ravi Prakash Mishra, RA, CPCB-ZO,Lucknow 2. Sh.Ravinder Singh, SRF, CPCB-ZO,Lucknow 3. Mrs. Chitra Srivastava, ASO, UPPCB, RO Kanpur 4. Sh. Dheeraj Kumar, AE, UP Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.48
3.	BOD (mg/l)	81
4.	COD (mg/l)	178
5.	TSS (mg/l)	85.6
6.	TDS (mg/l)	778
7.	Cl ⁻ (mg/l)	111
8.	NH ₃ -N (mg/l)	20.2
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	92,00,00,000
12.	FC (MPN/ 100 ml)#	92,00,00,000

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.67
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.14
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	1.85
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: 20.6°C
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	Sample not collected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-BHC	: NT
10.	β-BHC	: 0.254
11.	γ-BHC	: 0.018
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: 1.315
15.	Diedrin (ng/l)	: 0.242
16.	α-Endosulfan	: -
17.	Total Endosulfan (ng/l)	: -
18.	β-Endosulfan	: -
19.	OP'DDT	: -
20.	PP'DDT	: 1.261
21.	PP'DDE	: -
22.	Total DDT (ng/l)	: -

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling location of Bramhavart drain`



Confluence point of River Ganga & Bramhavart drain

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 08.12.16 & 11:20 am

1.	Name of the Drain	:	Lakshman ghat drain, Bithoor
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Meet to River Ganga at Right bank
3.	Name of the Regional Office of SPCB	:	UPPCB Kanpur Nagar
4.	Source of pollution load:	:	(Domestic)
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	-NA-
6.	Traceable length (in Km) before meeting Ganga River (through google earth/map)	:	Approx.30 m
7.	Catchment area		Dhruv Nagar, Manavati nagar, Laxami bai nagar etc.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)(River Bed)	Latitude	: N 26°37'0"
		Longitude	: E 80°16'24"
	Distance from confluence point		Approx.30 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°37'0"
		Longitude	: E 80°16'24"
10.	Landmarks / Address of the Location		Below new bridge of Lakshman ghat
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	0.095 MLD
12.	Observations	:	Drain was monitored below new bridge of Lakshman ghat and carries domestic waste water from nearby areas which directly meet to River Ganga.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Ravi Prakash Mishra, RA, CPCB-ZO,Lucknow 2. Sh.Ravinder Singh, SRF, CPCB-ZO,Lucknow 3. Mrs. Chitra Srivastava, ASO ,UPPCB, RO Kanpur 4. Sh. Dheeraj Kumar, AE, UP Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.64
3.	BOD (mg/l)	17.2
4.	COD (mg/l)	58.8
5.	TSS (mg/l)	26.9
6.	TDS (mg/l)	638
7.	Cl ⁻ (mg/l)	78.1
8.	NH ₃ -N (mg/l)	10.7
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	33,000 330,000
12.	FC (MPN/ 100 ml)#	33,000 330,000

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

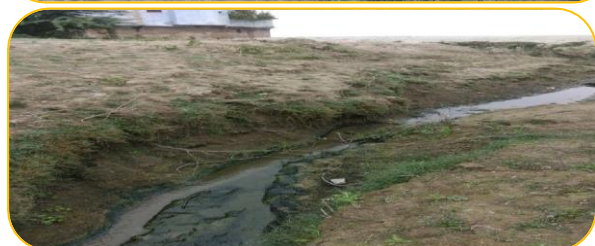
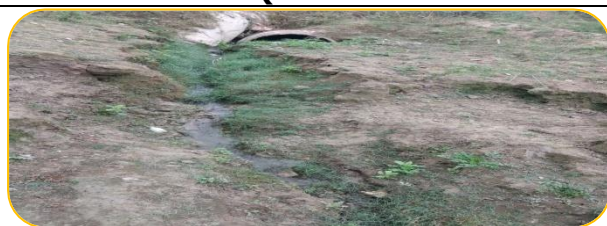
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.59
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.14
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	2.50
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: 20.6°C
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Sample not collected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-BHC	: NT
10.	β-BHC	: 0.259
11.	γ-BHC	: 0.109
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: 0.804
15.	Diedrin (ng/l)	: 0.640
16.	α-Endosulfan	: -
17.	Total Endosulfan (ng/l)	: -
18.	β-Endosulfan	: -
19.	OP'DDT	: -
20.	PP'DDT	: 2.541
21.	PP'DDE	: -
22.	Total DDT (ng/l)	: -

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point of Lakshmanghat drain



Confluence point of River Ganga & Lakshmanghat drain

**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 08.12.16 & 01:53 p.m.

1.	Name of the Drain	:	Lavkush ghat Drain , Bithoor
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Meet to River Ganga at Right bank
3.	Name of the Regional Office of SPCB	:	UPPCB Kanpur Nagar
4.	Source of pollution load:	:	(Domestic)
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	-NA-
6.	Traceable length (in Km) before meeting Ganga River (through google earth/map)	:	Approx. 10 m
7.	Catchment area		Subedar nagar, Tatya tope nagar, Lavkush nagar.
8.	Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units)(River Bed)	Latitude	: N 26°35'51"
		Longitude	: E 80°16'26"
	Distance from confluence point		Approx 10 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°35'51"
		Longitude	: E 80°16'26"
10.	Landmarks / Address of the Location		Beside Haridham
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	0.86 MLD
12.	Observations	:	Drain was monitored beside Haridham and carries domestic waste water from nearby areas which ultimately goes to River Ganga.
13.	Name of all monitoring officers along with Designation		1. Dr. Ravi Prakash Mishra, RA, CPCB-ZO,Lucknow 2. Sh.Ravinder Singh, SRF, CPCB-ZO,Lucknow 3. Mrs. Chitra Srivastava, ASO ,UPPCB, RO Kanpur 4. Sh. Dheeraj Kumar, AE, UP Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.43
3.	BOD (mg/l)	112
4.	COD (mg/l)	266
5.	TSS (mg/l)	241
6.	TDS (mg/l)	1067
7.	Cl ⁻ (mg/l)	228
8.	NH ₃ -N (mg/l)	3.0
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	3,30,00,000
12.	FC (MPN/ 100 ml)#	3,30,00,000

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	1.10
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.23
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.43
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: 20.6°C
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	Sample not collected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-BHC	: 0.836
10.	β-BHC	: 0.248
11.	γ-BHC	: 0.280
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: 0.565
15.	Diedrin (ng/l)	: 0.137
16.	α-Endosulfan	: -
17.	Total Endosulfan (ng/l)	: -
18.	β-Endosulfan	: -
19.	OP'DDT	: -
20.	PP'DDT	: 0.375
21.	PP'DDE	: -
22.	Total DDT (ng/l)	: -

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point of Lavkushghat drain



Drain flowing through river bed

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 08.12.16 & 12:40p.m

1.	Name of the Drain	:	Bhunighat drain , Bithoor
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Meet to River Ganga at Right bank
3.	Name of the Regional Office of SPCB	:	UPPCB Kanpur Nagar
4.	Source of pollution load:	:	(Domestic)
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	-NA-
6.	Traceable length (in Km) before meeting Ganga River (through google earth/map)	:	Approx. 150 m (River Bed)
7.	Catchment area		Pesvanagar, Bramhanagar etc.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)(River Bed)	Latitude	: N 26°36'26"
		Longitude	: E 80°16'26"
	Distance from confluence point		Approx.150 m (River Bed)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°36'33"
		Longitude	: E 80°16'24"
10.	Landmarks / Address of the Location		Behind Hanuman Mandir
11.	Flow (if in MLD) if zero indicate whether dry or stagnant)	:	0.63 MLD
12.	Observations	:	Drain was monitored behind Hanuman Mandir and carries domestic waste water from nearby areas which ultimately water logged at River bed of Ganga. At the time of inspection, the drain was not meeting to River Ganga.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Ravi Prakash Mishra, RA, CPCB-ZO,Lucknow 2. Sh.Ravinder Singh, SRF, CPCB-ZO,Lucknow 3. Mrs. Chitra Srivastava, ASO ,UPPCB, RO Kanpur 4. Sh. Dheeraj Kumar, AE, UP Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.39
3.	BOD (mg/l)	37.6
4.	COD (mg/l)	91.5
5.	TSS (mg/l)	48.1
6.	TDS (mg/l)	677
7.	Cl ⁻ (mg/l)	94.3
8.	NH ₃ -N (mg/l)	8.21
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	3,50,00,000
12.	FC (MPN/ 100 ml)#	1,10,00,000



*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	BDL
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	BDL
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	2.53
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: 20.6°C
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	: Sample not collected
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: 2.672
10.	β-BHC	: 0.482
11.	γ-BHC	: 0.537
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: 2.820
15.	Diedrin (ng/l)	: NT
16.	α-Endosulfan	: -
17.	Total Endosulfan (ng/l)	: -
18.	β-Endosulfan	: -
19.	OP'DDT	: -
20.	PP'DDT	: 29.04
21.	PP'DDE	: -
22.	Total DDT (ng/l)	: -

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)	
	
Sampling Point of Bhunighat drain	Wastewater logged at River bed of Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 08.12.16 & 10:30 a.m

1.	Name of the Drain	:	Gudara ghat, Bithoor (Durudwara)
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Meet to River Ganga at Right bank
3.	Name of the Regional Office of SPCB	:	UPPCB Kanpur Nagar
4.	Source of pollution load:	:	(Domestic)
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	-NA-
6.	Traceable length (in Km) before meeting Ganga River (through google earth/map)	:	Approx.50 m
7.	Catchment area		Azimula nagar etc.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)(River Bed)	Latitude	: N 26°36'41"
		Longitude	: E 80°16'30"
	Distance from confluence point		Approx.50 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°36'42"
		Longitude	: E 80°16'29"
10.	Landmarks / Address of the Location		Near Ram dham Ashram Gudara ghat
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Zero (stagnant)
12.	Observations	:	At the time of inspection, flow in drain was not observed. It was almost in stagnant condition. Solid wastes were dump near River and in the drain. Due to lack of flow, the sample was not collected at the time of inspection.
13.	Name of all monitoring officers along with Designation		1.Dr. Ravi Prakash Mishra, RA, CPCB-ZO,Lucknow 2.Sh.Ravinder Singh, SRF, CPCB-ZO,Lucknow 3. Mrs. Chitra Srivastava, ASO ,UPPCB, RO Kanpur 4. Sh. Dheeraj Kumar, AE, UP Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: sample was not collected at the time of inspection
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River


DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: sample was not collected at the time of inspection
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	


DRAIN MONITORING FORMAT (Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	---
Pesticide Analysis Report (OPPs)		
2.	Monochrotophos	sample was not collected at the time of inspection
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-BHC	sample was not collected at the time of inspection
10.	β-BHC	
11.	γ-BHC	
12.	δ-BHC	
13.	Total BHC (ng/l)	
14.	Aldrin (ng/l)	
15.	Diedrin (ng/l)	
16.	α-Endosulfan	
17.	Total Endosulfan (ng/l)	
18.	β-Endosulfan	
19.	OP'DDT	
20.	PP'DDT	
21.	PP'DDE	
22.	Total DDT (ng/l)	


**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**




Drain flow was not found
(Solid waste was dump near River bed and in drain)



Confluence point of River Ganga & Gudraghat Drain





DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 08.12.16 & 11:57 am

1.	Name of the Drain	:	Kalwarighat drain, Bithoor
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Meet to River Ganga at Right bank
3.	Name of the Regional Office of SPCB	:	UPPCB Kanpur Nagar
4.	Source of pollution load:	:	(Domestic)
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	-NA-
6.	Traceable length (in Km) before meeting Ganga River (through google earth/map)	:	Approx.600 m
7.	Catchment area		Dhruv nagar, Manavati nagar, Laxami bai nagar etc.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)(River Bed)	Latitude	: N 26°37'12"
		Longitude	: E 80°16'17"
	Distance from confluence point		Approx.50 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°37'11"
		Longitude	: E 80°16'16"
10.	Landmarks / Address of the Location		Behind home of Sunil kumar Goswami
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	0.76MLD
12.	Observations	:	Drain was monitored behind home of Sunil Kumar Goswami and carries domestic waste water from nearby areas which directly meet to River Ganga.
13.	Name of all monitoring officers along with Designation		1. Dr. Ravi Prakash Mishra, RA, CPCB-ZO,Lucknow 2. Sh.Ravinder Singh, SRF,CPCB-ZO,Lucknow 3. Mrs. Chitra Srivastava, ASO,UPPCB, RO Kanpur 4. Sh. Dheeraj Kumar, AE, UP Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
13.	Colour	-
14.	pH	7.57
15.	BOD (mg/l)	94.4
16.	COD (mg/l)	248
17.	TSS (mg/l)	116
18.	TDS (mg/l)	1008
19.	Cl ⁻ (mg/l)	174
20.	NH ₃ -N (mg/l)	39
21.	NO ₃ ⁻ (mg/l)	-
22.	DO (mg/l)*	-
23.	TC (MPN/ 100 ml)#	1,60,00,00,000
24.	FC (MPN/ 100 ml)#	1,60,00,00,000



*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	1.29
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.27
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.36
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: 20.2°C
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	: Sample not collected
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: 0.280
10.	β-BHC	: 0.267
11.	γ-BHC	: 0.215
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: 23.29
15.	Diedrin (ng/l)	: 0.102
16.	α-Endosulfan	: -
17.	Total Endosulfan (ng/l)	: -
18.	β-Endosulfan	: -
19.	OP'DDT	: -
20.	PP'DDT	: NT
21.	PP'DDE	: -
22.	Total DDT (ng/l)	: -

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)	
 <p>Sampling location of Kalwarighat drain</p>	 <p>Confluence point of River Ganga & Kalwarighat drain</p>

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 08.12.16 & 01:20 p.m

1.	Name of the Drain	:	Peshwa ghat , Bithoor
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Meet to River Ganga at Right bank
3.	Name of the Regional Office of SPCB	:	UPPCB Kanpur Nagar
4.	Source of pollution load:	:	(Domestic)
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	-NA-
6.	Traceable length (in Km) before meeting Ganga River (through google earth/map)	:	Approx.200 m (River Bed)
7.	Catchment area		Peshwa nagar, Subedar nagar etc.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)(River Bed)	Latitude	: N 26°36'20"
		Longitude	: E 80°16'26"
	Distance from confluence point		Approx.200 m (River Bed)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°36'14"
		Longitude	: E 80°16'20"
10.	Landmarks / Address of the Location		Beside Dak Bangla
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	0.87 MLD
12.	Observations	:	Drain was monitored beside Dak Bangla and carries domestic waste water from nearby areas which ultimately waste water logged at River bed of Ganga.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Ravi Prakash Mishra, RA, CPCB-ZO, Lucknow 2. Sh. Ravinder Singh, SRF, CPCB-ZO, Lucknow 3. Mrs. Chirta Srivastava, ASO, UPPCB, RO Kanpur 4. Sh. Dheeraj Kumar, AE, UP Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.54
3.	BOD (mg/l)	26.2
4.	COD (mg/l)	76.9
5.	TSS (mg/l)	41.5
6.	TDS (mg/l)	822
7.	Cl ⁻ (mg/l)	146
8.	NH ₃ -N (mg/l)	16.4
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	9,20,00,000
12.	FC (MPN/ 100 ml)#	9,20,00,000

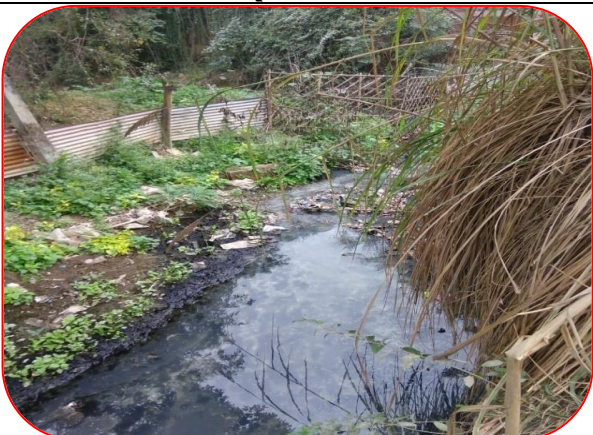

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.69
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.11
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.89
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: 20.5°C
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	: Sample not collected
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: NT
10.	β-BHC	: 0.364
11.	γ-BHC	: 0.379
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: 1.930
15.	Diedrin (ng/l)	: 1.490
16.	α-Endosulfan	: -
17.	Total Endosulfan (ng/l)	: -
18.	β-Endosulfan	: -
19.	OP'DDT	: -
20.	PP'DDT	: 43.38
21.	PP'DDE	: -
22.	Total DDT (ng/l)	: -

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)	
	
<p>Sampling point of Peswaghat drain</p>	<p>Waste water logged at River bed of Ganga</p>

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25-10-2016 at 5:30 pm

1.	Name of the Drain	:	Permiya Drain , Kanpur
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Kanpur SPCB
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 2.0 Km
7.	Catchment area		Visnupur, Mandana, HBTI, Makdikheda, Kalyanpur, Indria Nagar, Khewra vill., Jageswar vill., Jevravill., Machua vill., Ranighat vill
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 30' 1.9614"
		Longitude	: E 80° 19' 12.0966"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 30 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 26°30'05.3"
		Longitude	: 80°19' 04.5"
10.	Landmarks / Address of the Location		CSJM University , (Near Ranighat)
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 98.28 MLD
12.	Observations	:	Sewage from the Nawab ganj area directly meeting to Permiya drain which ultimately goes to R.Ganga.
13.	Name of all monitoring officers along with Designation		1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Sh. Shanu Sonkar, JEE, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.16
3.	BOD (mg/l)	138
4.	COD (mg/l)	308
5.	TSS (mg/l)	196
6.	TDS (mg/l)	590
7.	Cl ⁻ (mg/l)	82.7
8.	NH ₃ -N (mg/l)	52.2
9.	NO ₃ ⁻ (mg/l)	2.73
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	16,00,00,000
12.	FC (MPN/ 100 ml)#	9,20,00,000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	1.42
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.14
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.14
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	0.06
10.	β-BHC	0.65
11.	γ-BHC	0.05
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.07
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling point of Permiya Drain



Fig- Confluence point of Permiya Drain & River Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25-10-2016 at 4:55 pm

1.	Name of the Drain	:	Ranighat Nalla, Kanpur
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Kanpur UPPCB
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 2.17 Km
7.	Catchment area		Kanpur City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 29' 36.4302"
		Longitude	: E 80° 19' 44.0004"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 25 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26° 29' 35.88"
		Longitude	: E 80° 19' 43.392"
10.	Landmarks / Address of the Location		New Raw water Pumping station (Canal) Ranighat
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.39 MLD
12.	Observations	:	Nala is Tapped and still sewage meeting to the River Ganga.
13.	Name of all monitoring officers along with Designation		1. 1.Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2.Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3.Sh. Shanu Sonkar, JEE, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.37
3.	BOD (mg/l)	173
4.	COD (mg/l)	463
5.	TSS (mg/l)	354
6.	TDS (mg/l)	953
7.	Cl ⁻ (mg/l)	133
8.	NH ₃ -N (mg/l)	76.2
9.	NO ₃ ⁻ (mg/l)	2.02
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	160000000
12.	FC (MPN/ 100 ml)#	160000000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	1.42
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.14
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.14
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	0.08
10.	β-BHC	0.75
11.	γ-BHC	0.07
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.08
20.	PP'DDT	0.22
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig-Confluent point of Ranighat Drain with River Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 24.10.2016

1.	Name of Drain	:	Sisamau Nalla , Jajmau Kanpur
2.	Confluence with Ganga		Right bank Ganga
3.	Name of the Regional Office of SPCB		RO Kanpur UPPCB
4.	Source of Pollution Load		Mixed (Mostly sewage)
5.	If Industrial /Mixed (Please indicate type of sector)		Some quantity of untreated wastewater from slaughter houses at Fazalganj is discharged into the Sisamau drain
6.	Traceable length of drain (in Km) before meeting Ganga (through Google earth/ map)		Around 7-8 Km
7.	Catchment area		Kanpur City
8.	Co-ordinate of the confluence point (if not reachable indirect through Google earth/ map) (Decimal units)	Latitude	26°29'29.26"N
		Longitude	80°19'59.68"E
	Distance from confluence point (may the find out over Google earth/map), Km		500 m
9.	Co-ordinate of the sampling point (decimal units)	Latitude	26°29'23"N
		Longitude	80°19'53.74"E
10.	Landmarks/ Address of the location		Inside the power plant
11.	Flow in MLD, if Zero indicate whether dry or stagnant		With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 130 MLD
12.	Observations		01.The Sisamau drain is mostly carrying city sewage but some quantity of wastewater from slaughter houses located at Fazalganj is also mixed into the drain. 02.The untreated sewage is discharged directly into the river Ganga without any treatment.
13.	Name of all monitoring officers along with designation		
	Rajendra D Patil, Sci C Zonal Office, CPCB Lucknow		A K Mathur, AEE Regional Office, UPPCB Kanpur
	Rajesh Kumar, RA Zonal Office, CPCB Lucknow		Shnu Sonkar, Sci. Assistant Regional Office, UPPCB Kanpur
	A K Trivedi, Project Engineer Jal Nigam Kanpur		

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.05
3.	BOD (mg/l)	83
4.	COD (mg/l)	251
5.	TSS (mg/l)	187
6.	TDS (mg/l)	604
7.	Cl ⁻ (mg/l)	109
8.	NH ₃ -N (mg/l)	36.1
9.	NO ₃ ⁻ (mg/l)	2.71
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers
#for sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.06
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	3.32
6.	Lead (Pb) mg/l	0.02
7.	Manganese (Mn) mg/l	0.20
8.	Nickel (Ni) mg/l	0.06
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.50
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	BDL
10.	β- HCH	0.19
11.	γ-HCH	BDL
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.08
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

Photographs with captions- Sampling & Confluence point (Add date & Time stamping in camera)



Google Earth image of Sisamau Drain



Sisamau drain at Confluence point

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25.10.2016 at 2:00 pm

1.	Name of the Drain	:	Tefco Nala , Kanpur
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Kanpur UPPCB
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 0.4 Km
7.	Catchment area		Kanpur City, Ananadeshwar Mandir
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	N 26° 29' 14.1498"
		Longitude	E 80° 20' 40.2504"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 15m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	:
		Longitude	:
10.	Landmarks / Address of the Location		Behind Parmath Mandir
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Occasional flow due to SPS bypass.
12.	Observations	:	Tefco drain is now Tapped.
13.	Name of all monitoring officers along with Designation		1.Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2.Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3.Sh. Shanu Sonkar, JEE, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)
(Dry – no sample was collected)

Sl. No.	Parameters	Results
1.	Colour	Dry – no sample was collected
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Dry – no sample was collected
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Tefco Drain



Fig- Confluent point of Tefco Drain & River Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25-10-2016 at 2:25 pm

1.	Name of the Drain	:	Parmath Drain, Kanpur
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Kanpur SPCB
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 2.18 Km.
7.	Catchment area		Kanpur City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 29' 13.635"
		Longitude	: E 80° 20' 41.046"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 20 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: -
		Longitude	
10.	Landmarks / Address of the Location		Before Parmath Mandir
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	
12.	Observations	:	Measurement of flow not possible because underground sewage direct falling in River Ganga.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Sh. Shanu Sonkar, JEE, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

(Dry – no sample was collected)

Sl. No.	Parameters	Results
1.	Colour	: Dry – no sample was collected
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: No Sample was collected
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig – Sampling point of Parmath Drain



Fig -Confluence point of Parmath Drain & River Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25.10.2016 Time 1:30 PM

1.	Name of the Drain	:	Muir Mill Nala, Kanpur
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Kanpur SPCB
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 2Km.
7.	Catchment area		Kanpur City, Green Park
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 29' 4.1784"
		Longitude	E 80° 21' 0.9432"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 35 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26° 28' 56.4132"
		Longitude	E 80° 21' 2.7282"
10.	Landmarks / Address of the Location		Behind Green Park Stadium
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 8.45 MLD
12.	Observations	:	
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO 3.Lucknow 3. Sh. Shanu Sonkar, JEE, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.38
3.	BOD (mg/l)	85.3
4.	COD (mg/l)	210
5.	TSS (mg/l)	421
6.	TDS (mg/l)	774
7.	Cl ⁻ (mg/l)	160
8.	NH ₃ -N (mg/l)	40.9
9.	NO ₃ ⁻ (mg/l)	2.01
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	160000000
12.	FC (MPN/ 100 ml)#	160000000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	2.34
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.16
8.	Nickel (Ni) mg/l	0.02
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.28
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	0.05
10.	β-BHC	0.49
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig-Sampling point of Muir Mill Drain



Fig-Confluence point of Muir mill Drain with River Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25-10-2016 at 1:50 pm

1.	Name of the Drain	:	Police line Nala, Kanpur
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Kanpur SPCB
4.	Source of pollution load:	:	Domestic (Dry)
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 0.12 Km
7.	Catchment area		Police line Colony, Kanpur City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 28' 44.8068"
		Longitude	: E 80° 21' 32.925"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 15 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: -
		Longitude	
10.	Landmarks / Address of the Location		Near Central Jail Road
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Dry
12.	Observations	:	During monitoring no sewage was found.
13.	Name of all monitoring officers along with Designation		1.Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2.Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3.Sh. Shanu Sonkar, JEE, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	Dry
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Dry
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig-Sampling point of Police Line Drain (**Dry**)



Fig- Confluent point of Police Drain & River Ganga.

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25.10.16 at 1:45pm

1.	Name of the Drain	:	Jail Drain, Kanpur
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Kanpur SPCB
4.	Source of pollution load:	:	Domestic (Dry)
5.	If Industrial /Mixed (Please indicate type of sector)	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	0.80 Km
7.	Catchment area		Jail Road, Kanpur City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 28' 44.583"
		Longitude	: E 80° 21' 33.609"
	Distance from confluence point (may the find out over google earth/map), KM		--
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: -
		Longitude	
10.	Landmarks / Address of the Location		Central Jail Road
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Dry
12.	Observations	:	-
13.	Name of all monitoring officers along with Designation		1 Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2.Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Sh. Shanu Sonkar, JEE, UPPCB, Kanpur 4. Sh. A.K. Trivedi AEE, J.N. Kanpur

DRAIN MONITORING FORMAT

(General parameters)

(Dry – no sample was collected)

Sl. No.	Parameters	Results
1.	Colour	Dry
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT

(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Dry
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling point of Jail Drain



Fig-Confluence point of Jail Drain & River Ganga

**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 25.10.2016 & 1:15 pm

1.	Name of the Drain	:	Gola ghat nala , Kanpur
2.	Meeting Ganga at -	:	Right bank -Ganga
3.	Name of the Regional Office of SPCB	:	RO, UPPCB, Kanpur
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicate type of sector)	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 0.5 Km
7.	Catchment area		Mal Road, Cantt , Kanpur City.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 28' 17.4246"
		Longitude	: E 80° 22' 11.1966"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 25 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 25°24'34.2"
		Longitude	: E 80°23' 47.6"
10.	Landmarks / Address of the Location		Tannery/Cantt (Near Gola ghat cantt. road)
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.44 MLD
12.	Observations	:	Golaghat is a minor drain. -
13.	Name of all monitoring officers along with Designation		1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB Z O Lucknow 3. Sh. Shanu Sonkar, JEE, RO, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.34
3.	BOD (mg/l)	143
4.	COD (mg/l)	289
5.	TSS (mg/l)	234
6.	TDS (mg/l)	937
7.	Cl ⁻ (mg/l)	152
8.	NH ₃ -N (mg/l)	42.9
9.	NO ₃ ⁻ (mg/l)	0.876
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	92000000
12.	FC (MPN/ 100 ml)#	92000000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.02
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	1.22
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.16
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.52
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	0.05
10.	β-BHC	0.07
11.	γ-BHC	0.06
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling point of Gola Ghat Drain



Fig- Confluence point of Gola ghat Drain & river Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25.10.2016 & 12:25 pm

1.	Name of the Drain	:	Bhagwat das ghat Drain, Kanpur
2.	Meeting Ganga at	:	Right bank
3.	Name of the Regional Office of SPCB	:	RO, UPPCB, Kanpur
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 1.3 Km
7.	Catchment area		Civil line area, Bhagwatdas ghat, mall road
8.	Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units)	Latitude	: N 26° 28' 28.506"
		Longitude	: E 80° 21' 56.6958"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 50m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26° 28' 27.8"
		Longitude	: E 80° 21' 54.1"
10.	Landmarks / Address of the Location		Tannery/Cantt (Near Bhagwat das ghat cantt. road)
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 11.05 MLD
12.	Observations	:	Bhagwat das ghat drain direct falling into R. Ganga.
13.	Name of all monitoring officers along with Designation		1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB Z O Lucknow 3. Sh. Shanu Sonkar, JEE, RO, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, Jal Nigam, Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	:
2.	pH	7.24
3.	BOD (mg/l)	95
4.	COD (mg/l)	261
5.	TSS (mg/l)	147
6.	TDS (mg/l)	722
7.	Cl ⁻ (mg/l)	139
8.	NH ₃ -N (mg/l)	48.7
9.	NO ₃ ⁻ (mg/l)	2.17
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	92000000
12.	FC (MPN/ 100 ml)#	92000000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	:
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.68
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.10
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.24
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	0.05
10.	β-BHC	0.29
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.14
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling point of Bhagwat das Drain



Fig- Confluence point of Bhagwat das drain & River Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 25.10.2016 at 12:55 pm

1.	Name of the Drain	:	Sattichaura ghat Drain, Kanpur
2.	Meeting Ganga at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Kanpur UPPCB
4.	Source of pollution load:	:	Dmestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 0.7 Km
7.	Catchment area		Tannery/Cantt.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	N 26° 27' 34.8474"
		Longitude	E 80° 22' 50.0478"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 20 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	N 26° 27' 34.2"
		Longitude	E 80° 22' 47.4"
10.	Landmarks / Address of the Location		Near Sattichaura ghat, cantt. road
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.54 MLD
12.	Observations	:	Sattichaura ghat drain is a minor drain.-
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Sh. Shanu Sonkar, JEE, UPPCB, Kanpur 4. Sh. A.K. Trivedi, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.42
3.	BOD (mg/l)	56.8
4.	COD (mg/l)	130
5.	TSS (mg/l)	107
6.	TDS (mg/l)	518
7.	Cl ⁻ (mg/l)	73.2
8.	NH ₃ -N (mg/l)	26.7
9.	NO ₃ ⁻ (mg/l)	2.15
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	22000000
12.	FC (MPN/ 100 ml)#	13000000
13.		

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.82
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.18
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.12
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: BDL
10.	β-BHC	: 0.10
11.	γ-BHC	: BDL
12.	δ-BHC	: BDL
13.	Total BHC (ng/l)	: BDL
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: BDL
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling point of Sattichaura ghat Drain



Fig- Confluence point of Sattichaura Drain & River Ganga

**DRAIN MONITORING FORMAT
(Ganga)**

Date & Time of sampling: 24.10.2016

01	Name of Drain	:	Dabka Nalla Drain-3, Jajmau Kanpur
03	Confluence with R. Ganga		Right Bank
04	Name of the Regional Office of SPCB		RO Kanpur UPPCB
05	Source of Pollution Load		Mostly sewage
06	If Industrial /Mixed (Please indicate type of sector)		Kanpur city sewage
07	Traceable length (in Km) before meeting Ganga (through Google earth/ map)		Approx. 01 - 02 Km
08	Catchment area		Kanpur City
09	Co-ordinate of the confluence point (if not reachable indirect though Google earth/ map) (Decimal units)	Latitude	26°25'51"N
		Longitude	80°23'40"E
	Distance from confluence point (may the find out over Google earth/map), Km		NA
10	Co-ordinate of the sampling point (decimal units)	Latitude	26°25'51"N
		Longitude	80°23'40"E
11	Landmarks/ Address of the location		At confluence point
12	Flow (if in MLD) if Zero indicate whether dry or stagnant		Zero, Drain was tapped and back water of river Ganga was flowing into the drain at confluence point.
13	Characteristics	Colour	Not applicable as zero wastewater flow was found at the monitoring point.
		pH	
		BOD (mg/l)	
		COD (mg/l)	
		TSS	
		TDS	
		PO ₄ ³⁻	
		Cl ⁻	
		NH ₃ -N	
		NO ₃ ⁻	
14	For Fresh water carrying drains/rivers	DO	
15	For sewage,	TC	

	mixed Drains & River	(MPN/100ml)	
		FC (MPN/100ml)	

16 Photographs with captions- Sampling & Confluence point (Add date & Time stamping in camera)



Google Earth image of Buriyaghat Drain



River water backflow into Dabka Drain at Confluence point

17	<p>Observations</p> <p>01.The Dabka drain is generally carrying domestic sewage of Kanpur city.</p> <p>02.The drain was tapped and the wastewater was taken to STPs for treatment.</p> <p>03. At the time of visit river water was back flowing into the Dabka drain at Confluence point.</p>							
18	Urgent action required, if any	NA						
19	<p>Name of all monitoring officers along with designation</p> <table border="1" data-bbox="316 1541 1396 1812"> <tr> <td data-bbox="316 1541 874 1637">Rajendra D Patil, Sci C Zonal Office, CPCB Lucknow</td> <td data-bbox="874 1541 1396 1637">A K Mathur, AEE Regional Office, UPPCB Kanpur</td> </tr> <tr> <td data-bbox="316 1637 874 1733">Rajesh Kumar, RA Zonal Office, CPCB Lucknow</td> <td data-bbox="874 1637 1396 1733">Shnu Sonkar, Sci. Assistant Regional Office, UPPCB Kanpur</td> </tr> <tr> <td data-bbox="316 1733 874 1812">A K Trivedi, Project Engineer Jal Nigam Kanpur</td> <td data-bbox="874 1733 1396 1812"></td> </tr> </table>		Rajendra D Patil, Sci C Zonal Office, CPCB Lucknow	A K Mathur, AEE Regional Office, UPPCB Kanpur	Rajesh Kumar, RA Zonal Office, CPCB Lucknow	Shnu Sonkar, Sci. Assistant Regional Office, UPPCB Kanpur	A K Trivedi, Project Engineer Jal Nigam Kanpur	
Rajendra D Patil, Sci C Zonal Office, CPCB Lucknow	A K Mathur, AEE Regional Office, UPPCB Kanpur							
Rajesh Kumar, RA Zonal Office, CPCB Lucknow	Shnu Sonkar, Sci. Assistant Regional Office, UPPCB Kanpur							
A K Trivedi, Project Engineer Jal Nigam Kanpur								

DRAIN MONITORING FORMAT (Ganga)



Date & Time of sampling: 24.10.2016

1.	Name of Drain	:	Sheetlabazar Drain, Jajmau Kanpur
2.	Confluence with R. Ganga		Right bank
3.	Name of the Regional Office of SPCB		RO Kanpur UPPCB
4.	Source of Pollution Load		Mixed (Sewage + Tannery Wastewater)
5.	IF Industrial/ Mixed (Name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB		Around 400 tannery units located in Jajmau cluster.
6.	Traceable length (in Km) before meeting Ganga (through Google earth/ map)		Around 01 Km
7.	Catchment area		Jamau industrial cluster
8.	Co-ordinate of the confluence point (if not reachable indirect though Google earth/ map) (Decimal units)	Latitude	26°26'13"N
		Longitude	80°24'13"E
	Distance from confluence point (may the find out over Google earth/map), Km		Approx. 10 m
9.	Co-ordinate of the sampling point (decimal units)	Latitude	26°26'13"N
		Longitude	80°24'13"E
10.	Landmarks/ Address of the location		Confined path made by wastewater into the river Ganga.
11.	Flow (if in MLD) if Zero indicate whether dry or stagnant		With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 15.6 MLD
12.	Characteristics	Colour	Black
		pH	8.09
		TSS	887
		TDS	6065
		Cl ⁻	35.5
		SO ₄ ²⁻	1198
		S	36.9
		P	8.95
		Nitrate as N	22.6
		Nitrite as N	BDL
		Am Nitrogen	232
O & G	12.6		

		BOD (mg/l)		35.5533 533
		COD (mg/l)		1649
13.	Heavy Metal	Arsenic (As) mg/l		BDL
		Cadmium (Cd) mg/l		BDL
		Total Chromium (Cr) mg/l		11.04
		Copper (Cu) mg/l		-
		Iron (Fe) mg/l		0.88
		Lead (Pb) mg/l		BDL
		Manganese (Mn) mg/l		0.22
		Nickel (Ni) mg/l		BDL
		Mercury (Hg) mg/l		-
		Zinc (Zn) mg/l		0.28
		Antimony (Sb) mg/l		-
		Cobalt (Co) mg/l		BDL
		Selenium (Se) mg/l		-
		Vanadium (V) mg/l		-
14.	DO (For Fresh water carrying drains/rivers)			NA
15.	For sewage, mixed Drains & River	TC (MPN/100ml)		1.7×10^7
		FC (MPN/100ml)		1.3×10^7

DRAIN MONITORING FORMAT (Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

<p>Photographs with captions- Sampling & Confluence point (Add date & Time stamping in camera)</p>	
	
<p>Google Earth image of Sheetlabazar Drain</p>	<p>Sheetlabazar drain at monitoring and Confluence point</p>
<p>Observations</p>	

	<p>01. The Sheetlabazar drain is carrying tannery effluent along with inseparable sewage.</p> <p>02. Out of total effluent generated in the area some of effluent is pumped to CETP Jajmau, Kanpur through Sheetlabazar pumping station and surplus is discharged in to river Ganga through Sheetlabazar drain without any treatment.</p> <p>03. The quantity measured and as indicated at Sr No 12 is discharged directly into river Ganga without any treatment.</p>	
	Urgent action required, if any	Treatment of wastewater before directly discharging into river Ganga without any treatment.
	Name of all monitoring officers along with designation	
	Rajendra D Patil, Sci C Zonal Office, CPCB Lucknow	A K Mathur, AEE Regional Office, UPPCB Kanpur
	Rajesh Kumar, RA Zonal Office, CPCB Lucknow	Shnu Sonkar, Sci. Assistant Regional Office, UPPCB Kanpur
	A K Trivedi, Project Engineer Jal Nigam Kanpur	

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 24.10.2016

01	Name of Drain	:	Budhiya ghat Drain, Jajmau Kanpur
03	Confluence with R. Ganga		Right bank
04	Name of the Regional Office of SPCB		RO Kanpur UPPCB
05	Source of Pollution Load		Mixed (Sewage + Tannery Wastewater)
06	IF Industrial/ Mixed (Name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB		Around 400 tannery units located in Jajmau cluster.
07	Traceable length (in Km) before meeting Ganga (through Google earth/ map)		Approx. 01 Km
08	Catchment area		Jajmau industrial cluster
09	Co-ordinate of the confluence point (if not reachable indirect though Google earth/ map) (Decimal units)	Latitude	26°25'51"N
		Longitude	80°24'42"E
	Distance from confluence point (may the find out over Google earth/map), Km		Approx. 20 m
10	Co-ordinate of the sampling point (decimal units)	Latitude	26°25'51"N
		Longitude	80°24'42"E
11	Landmarks/ Address of the location		Discharge after Buriyaghat Pumping station
12	Flow (if in MLD) if Zero indicate whether dry or stagnant		With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 6.5 MLD
13	Characteristics	Colour	Black
		pH	8.14
		TSS	741
		TDS	10049
		Cl ⁻	62.2
		SO ₄ ²⁻	2024
		S	41.7
		P	5.48
		Nitrate as N	80.6
		Nitrite as N	BDL
		Am Nitrogen	229
O & G	10.8		

		BOD (mg/l)		523
		COD (mg/l)		1621
14	Heavy Metal	Arsenic (As) mg/l		BDL
		Cadmium (Cd) mg/l		BDL
		Total Chromium (Cr) mg/l		13
		Copper (Cu) mg/l		-
		Iron (Fe) mg/l		0.54
		Lead (Pb) mg/l		BDL
		Manganese (Mn) mg/l		0.10
		Nickel (Ni) mg/l		0.04
		Mercury (Hg) mg/l		-
		Zinc (Zn) mg/l		0.10
		Antimony (Sb) mg/l		-
		Cobalt (Co) mg/l		BDL
		Selenium (Se) mg/l		-
		Vanadium (V) mg/l		-
15	For Fresh water carrying drains/rivers	DO		
16	For sewage, mixed Drains & River	TC (MPN/100ml)		<1.8
		FC (MPN/100ml)		<1.8

DRAIN MONITORING FORMAT (Pesticide)

Sl. No.	Parameters		Results
1.	Water temperature (°C)	:	
	Pesticide Analysis Report (OPPs)	:	
2.	Monochrotophos	:	Sample not collected
3.	Dimethoate (µg/l)	:	
4.	Methyl Parathion (µg/l)	:	
5.	Malathion (µg/l)	:	
6.	Chloropyriphos (µg/l)	:	
7.	Methyl Parathion	:	
8.	Ethion (µg/l)	:	
	Pesticide Analysis Report (OCPs)	:	
9.	α-BHC	:	BDL
10.	β-BHC	:	5.34
11.	γ-BHC	:	BDL
12.	δ-BHC	:	BDL
13.	Total BHC (ng/l)	:	BDL
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL

16.	α -Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	BDL
18.	β -Endosulfan	:	BDL
19.	OP'DDT	:	BDL
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	BDL

1	Photographs with captions- Sampling & Confluence point (Add date & Time stamping in camera)		
	Google Earth image of Buriyaghat Drain	Buriyaghat drain at monitoring and Confluence point	
2	Observations 01. The Buriyaghat drain is carrying tannery effluent along with inseparable sewage. 02. The effluent of Buriyaghat drain is normally tapped and pumped into the Wazidpur drain. However, on the time of visit the pumping station was under maintenance and the effluent receiving was overflowing into the river Ganga without any treatment. 03. The quantity measured and as indicated at Sr No 12 is discharged directly into river Ganga without any treatment.		
3	Urgent action required, if any		Treatment of wastewater before directly discharging into river Ganga without any treatment.
4	Name of all monitoring officers along with designation		
	Rajendra D Patil, Sci C Zonal Office, CPCB Lucknow	A K Mathur, AEE Regional Office, UPPCB Kanpur	
	Rajesh Kumar, RA Zonal Office, CPCB Lucknow	Shnu Sonkar, Sci. Assistan Regional Office, UPPCB Kanpur	
	A K Trivedi, Project Engineer Jal Nigam Kanpur		

DRAIN MONITORING FORMAT (Ganga)


Date & Time of sampling: 24.10.2016

1.	Name of Drain	:	Wazidpur Nala , Jajmau Kanpur
2.	Confluence with R. Ganga		Right bank
3.	Name of the Regional Office of SPCB		RO Kanpur UPPCB
4.	Source of Pollution Load		Mostly sewage
5.	IF Industrial/ Mixed (Sectors of Industry)		Mixed (Sewage + Tannery Wastewater)
6.	Traceable length (in Km) before meeting Ganga (through Google earth/ map)		Around 400 tannery units located in Jajmau cluster.
7.	Catchment area		Around 01 Km
8.	Co-ordinate of the confluence point (if not reachable indirect though Google earth/ map) (Decimal units)	Latitude	26°25'24"N
		Longitude	80°25'8.87"E
	Distance from confluence point (may the find out over Google earth/map), Km		Approx. 500 m
9.	Co-ordinate of the sampling point (decimal units)	Latitude	26°25'15.95"N
		Longitude	80°24'59.02"E
10.	Landmarks/ Address of the location		Discharge after Wazidpur pumping station.
11.	Flow (if in MLD) if Zero indicate whether dry or stagnant		With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 11.7 MLD
12.	Characteristics of general parameter	Colour	Black
		pH	8.05
		TSS	1911
		TDS	11360
		Cl ⁻	36.4
		SO ₄ ²⁻	2017
		S	53.3
		P	4.45
		Nitrate as N	67.1
		Nitrite as N	BDL
		Am Nitrogen	206
		O & G	7.41
		BOD (mg/l)	870
COD (mg/l)	2796		
13.	Heavy Metal	Arsenic (As) mg/l	BDL
		Cadmium (Cd) mg/l	0.02
		Total Chromium	84.56

		(Cr) mg/l		
		Copper (Cu) mg/l		-
		Iron (Fe) mg/l		2.16
		Lead (Pb) mg/l		0.02
		Manganese (Mn) mg/l		0.26
		Nickel (Ni) mg/l		0.06
		Mercury (Hg) mg/l		-
		Zinc (Zn) mg/l		0.32
		Antimony (Sb) mg/l		-
		Cobalt (Co) mg/l		BDL
		Selenium (Se) mg/l		-
		Vanadium (V) mg/l		-
14.	DO (For Fresh water carrying drains/rivers)			NA
15.	For sewage, mixed Drains & River	TC (MPN/100ml)		1.7×10^6
		FC (MPN/100ml)		7.9×10^5

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	Sample not collected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-BHC	BDL
10.	β-BHC	3.19
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL

22.	Total DDT (ng/l)	:	BDL
1.	Photographs with captions- Sampling & Confluence point (Add date & Time stamping in camera)		
			
	Wazidpur drain at monitoring point	Wazidpur drain at Confluence point	
2	<p>Observations</p> <p>04. The wazidpur drain is carrying tannery effluent along with inseparable sewage.</p> <p>05. Out of the total effluent generated in the area around 4-5 MLD effluent is pumped to CETP Jajmau, Kanpur and surplus is discharged through Wazidpur drain without any treatment into river Ganga.</p> <p>06. The quantity measured and as indicated at Sr No 12 is discharged directly into river Ganga without any treatment.</p>		
3	Name of all monitoring officers along with designation		
	Rajendra D Patil, Sci C Zonal Office, CPCB Lucknow	A K Mathur, AEE Regional Office, UPPCB Kanpur	
	Rajesh Kumar, RA Zonal Office, CPCB Lucknow	Shnu Sonkar, Sci. Assistant Regional Office, UPPCB Kanpur	
	A K Trivedi, Project Engineer Jal Nigam Kanpur		

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 06/12/2016, 4:30 PM

1.	Name of the Drain	:	Manohar Nagar - I Drain
2.	Meeting Ganga at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	UPPCB, RO, Unnao
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	~0.7 KM
7.	Catchment area		Manohar Nagar, Sita Ram Colony
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26°28.287'
		Longitude	: E 80°22.798'
	Distance from confluence point (may the find out over google earth/map), KM		-
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: -
		Longitude	: -
10.	Landmarks / Address of the Location		Near Balu Ghat Police Chowki, Shuklaganj, Unnao
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Zero; Almost dry <i>*As reported by UP Jal Nigam, its discharge was 0.06 MLD (measured by V-notch during June 14-19, 2015).</i>
12.	Observations	:	1. The drain is very small and the flow was too lean to be measured. Hence, sample could not be collected. 2. Too small drain to monitor regularly.
13.	Name of all monitoring officers along with Designation		1. Dr. Sanjay Kumar Singh, RA-I, CPCB, ZO(N), Lucknow 2. Dr. Vijya Singh, RA-I, CPCB, ZO(N), Lucknow 3. Mr. Vishal Maurya, Lab Asst., UPPCB, RO, Unnao 4. Mr. Asif Khan, JE, UP Jal Nigam, Unnao

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
13.	Colour	Dry
14.	pH	
15.	BOD (mg/l)	
16.	COD (mg/l)	
17.	TSS (mg/l)	
18.	TDS (mg/l)	
19.	Cl ⁻ (mg/l)	
20.	NH ₃ -N (mg/l)	
21.	NO ₃ ⁻ (mg/l)	
22.	DO (mg/l)*	
23.	TC (MPN/ 100 ml)#	
24.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

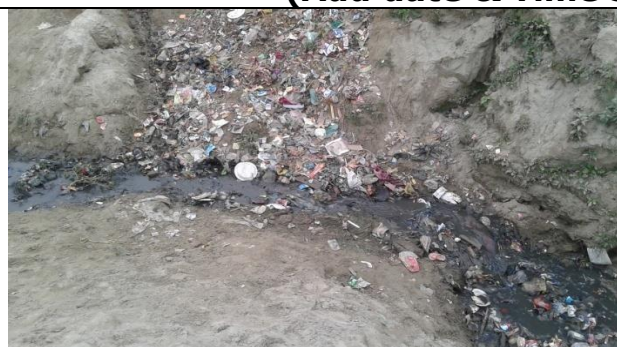
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Dry
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Pic.: Manohar Nagar - II drain with very lean flow



Pic.: Confluence of Manohar Nagar - II drain at left bank of R. Ganga

DRAIN MONITORING FORMA (Ganga)

Date & Time of sampling: 06/12/2016, 4:00 PM

1.	Name of the Drain	:	Manohar Nagar - II Drain
2.	Meeting Ganga at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	UPPCB, RO, Unnao
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	~1.5 KM
7.	Catchment area		Manohar Nagar, Rahmat Nagar, Shakti Nagar, Gandhi Nagar
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26°28.251'
		Longitude	: E 80°22.853'
	Distance from confluence point (may the find out over google earth/map), KM		~20 Meters
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°28.251'
		Longitude	: E 80°22.853'
10.	Landmarks / Address of the Location		Near Balu Ghat Police Chowki, Shuklaganj, Unnao
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Flow measurement was not feasible. <i>*As reported by UP Jal Nigam, its discharge was 0.16 MLD (measured by V-notch during June 14-19, 2015).</i>
12.	Observations	:	1.Flow measurement was not possible by float method. 2. Multiple small drains originating from nearby houses make a common drain. 3.The drain meets R. Ganga at left bank in a very irregular shape. Therefore, measurement of length, width and depth of drain was not feasible.

		<p>4. Dumping of solid waste of nearby houses observed.</p> <p>5. Too small drain to monitor regularly.</p>
13.	Name of all monitoring officers along with Designation	<p>1. Dr. Sanjay Kumar Singh, RA-I, CPCB, ZO(N), Lucknow</p> <p>2. Dr. Vijya Singh, RA-I, CPCB, ZO(N), Lucknow</p> <p>3. Mr. Vishal Maurya, Lab Asst., UPPCB, RO, Unnao</p> <p>4. Mr. Asif Khan, JE, UP Jal Nigam, Unnao</p>

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.44
3.	BOD (mg/l)	85.5
4.	COD (mg/l)	152
5.	TSS (mg/l)	67.4
6.	TDS (mg/l)	1471
7.	Cl ⁻ (mg/l)	343
8.	NH ₃ -N (mg/l)	89.5
9.	NO ₃ ⁻ (mg/l)	0.88
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	2,20,00,000
12.	FC (MPN/ 100 ml)#	2,20,00,000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

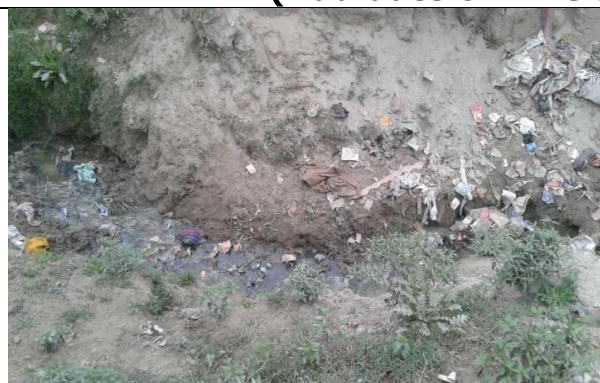
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	0.31
6.	Lead (Pb) mg/l	0.163
7.	Manganese (Mn) mg/l	0.342
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	BDL
10.	Zinc (Zn) mg/l	BDL
11.	Antimony (Sb) mg/l	BDL
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results	
1.	Water temperature (°C)	:	
	Pesticide Analysis Report (OPPs)	:	
2.	Monochrotophos	:	N.D
3.	Dimethoate (µg/l)	:	N.D
4.	Methyl Parathion (µg/l)	:	N.D
5.	Malathion (µg/l)	:	N.D
6.	Chloropyriphos (µg/l)	:	N.D
7.	Methyl Parathion	:	N.D
8.	Ethion (µg/l)	:	N.D
	Pesticide Analysis Report (OCPs)	:	
9.	α-BHC	:	N.D
10.	β-BHC	:	N.D
11.	γ-BHC	:	N.D
12.	δ-BHC	:	N.D
13.	Total BHC (ng/l)	:	N.D
14.	Aldrin (ng/l)	:	N.D
15.	Diedrin (ng/l)	:	N.D
16.	α-Endosulfan	:	N.D
17.	Total Endosulfan (ng/l)	:	N.D
18.	β-Endosulfan	:	N.D
19.	OP'DDT	:	N.D
20.	PP'DDT	:	N.D
21.	PP'DDE	:	N.D
22.	Total DDT (ng/l)	:	N.D

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Pic.: Sampling point of Manohar Nagar - I drain



Pic.: Confluence of Manohar Nagar - I drain at left bank of R. Ganga

DRAIN MONITORING FORMA (Ganga)

Date & Time of sampling: 06/12/2016, 5:00 PM

1.	Name of the Drain	:	Railway Bridge Drain
2.	Meeting Ganga at -	:	Left bank (On the day of monitoring drain was not meeting R. Ganga)
3.	Name of the Regional Office of SPCB	:	UPPCB, RO, Unnao
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	~2 KM
7.	Catchment area		Mishra Colony, Sita Ram Colony, Paschim Ganga Ghat
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	-
		Longitude	-
	Distance from confluence point (may the find out over google earth/map), KM		- (On the day of monitoring drain was not meeting R. Ganga)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	N 26°28.423'
		Longitude	E 80°22.656'
10.	Landmarks / Address of the Location		Below Railway (Old Bridge), Shuklaganj, Unnao
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Flow measurement was not feasible. <i>*As reported by UP Jal Nigam, its discharge was 0.51 MLD (measured by V-notch during June 14-19, 2015).</i>
12.	Observations	:	<ol style="list-style-type: none"> 1. Flow measurement was not possible by float method. 2. Multiple small drains originating from nearby houses make a common drain, which is meets R. Ganga at left bank. 3. Major part of the drain is covered. 4. The drain becomes open near the left bank of R.

		<p>Ganga in a very irregular shape. Therefore, measurement of length, width and depth of drain was not feasible.</p> <p>5. Too small drain to monitor regularly.</p> <p>6. On the day of monitoring the drain was not meeting R. Ganga.</p> <p>7. The wastewater was getting stored in a small pond like structure in the river bed, approximately 150-200 meters away from the left bank of stream of R. Ganga.</p>
13.	Name of all monitoring officers along with Designation	<p>1. Dr. Sanjay Kumar Singh, RA-I, CPCB, ZO(N), Lucknow</p> <p>2. Dr. Vijya Singh, RA-I, CPCB, ZO(N), Lucknow</p> <p>3. Mr. Vishal Maurya, Lab Asst., UPPCB, RO, Unnao</p> <p>4. Mr. Asif Khan, JE, UP Jal Nigam, Unnao</p>

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
25.	Colour	: -
26.	pH	: 7.47
27.	BOD (mg/l)	: 157
28.	COD (mg/l)	: 273
29.	TSS (mg/l)	: 142
30.	TDS (mg/l)	: 1333
31.	Cl ⁻ (mg/l)	: 240
32.	NH ₃ -N (mg/l)	: 96.9
33.	NO ₃ ⁻ (mg/l)	: 0.94
34.	DO (mg/l)*	: -
35.	TC (MPN/ 100 ml)#	: 2,20,00,000
36.	FC (MPN/ 100 ml)#	: 1,30,00,000

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: BDL
5.	Iron (Fe) mg/l	: 1.27
6.	Lead (Pb) mg/l	: 0.096
7.	Manganese (Mn) mg/l	: 0.278
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: BDL
10.	Zinc (Zn) mg/l	: BDL
11.	Antimony (Sb) mg/l	: BDL
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

DRAIN MONITORING FORMAT
(Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	: N.D
3.	Dimethoate (µg/l)	: N.D
4.	Methyl Parathion (µg/l)	: N.D
5.	Malathion (µg/l)	: N.D
6.	Chloropyriphos (µg/l)	: N.D
7.	Methyl Parathion	: N.D
8.	Ethion (µg/l)	: N.D
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: N.D
10.	β-BHC	: N.D
11.	γ-BHC	: N.D
12.	δ-BHC	: N.D
13.	Total BHC (ng/l)	: N.D

1.	Aldrin (ng/l)	:	N.D
2.	Dieldrin (ng/l)	:	N.D
3.	α -Endosulfan	:	N.D
4.	Total Endosulfan (ng/l)	:	N.D
5.	β -Endosulfan	:	N.D
6.	OP'DDT	:	N.D
7.	PP'DDT	:	N.D
8.	PP'DDE	:	N.D
9.	Total DDT (ng/l)	:	N.D

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Pic.: Sampling point of Railway Bridge drain



Pic.: The wastewater was storage of Railway Bridge drain in a pond like structure, approximately 150-200 meters away from the left bank of R. Ganga

DRAIN MONITORING FORMA (Ganga)

Date & Time of sampling: 06/12/2016, 3:00 PM

1.	Name of the Drain	:	Indranagar Drain
2.	Meeting Ganga at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	UPPCB, RO, Unnao
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	3 KM
7.	Catchment area		Indira Nagar, Prem Nagar, Shakti Nagar, Binda Nagar, Gandhi Nagar, Shaikh Nagar, Ahmad Nagar
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26°28.162'
		Longitude	: E 80°23.060'
	Distance from confluence point (may the find out over google earth/map), KM		~20 Meters
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°28.162'
		Longitude	: E 80°23.060'
10.	Landmarks / Address of the Location		Indira Nagar colony (near Amrood Bagiya), Shuklaganj, Unnao
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Flow measurement was not feasible. <i>*As reported by UP Jal Nigam, its discharge was 2.01 MLD (measured by V-notch during June 14-19, 2015).</i>
12.	Observations	:	1. Flow measurement was not possible by float method. 2. Multiple small drains originating from nearby houses make a common drain, which is meets R. Ganga at left bank. 3. Major part of the drain is covered. 4. The drain becomes open near the left bank of R. Ganga in a very irregular shape.

		Therefore, measurement of length, width and depth of drain was not feasible.
13.	Name of all monitoring officers along with Designation	<ol style="list-style-type: none"> 1. Dr. Sanjay Kumar Singh, RA-I, CPCB, ZO(N), Lucknow 2. Dr. Vijya Singh, RA-I, CPCB, ZO(N), Lucknow 3. Mr. Vishal Maurya, Lab Asst., UPPCB, RO, Unnao 4. Mr. Asif Khan, JE, UP Jal Nigam, Unnao

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.22
3.	BOD (mg/l)	205
4.	COD (mg/l)	340
5.	TSS (mg/l)	154
6.	TDS (mg/l)	1340
7.	Cl ⁻ (mg/l)	258
8.	NH ₃ -N (mg/l)	48.8
9.	NO ₃ ⁻ (mg/l)	1.36
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	5,40,00,000
12.	FC (MPN/ 100 ml)#	5,40,00,000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	0.74
6.	Lead (Pb) mg/l	0.143
7.	Manganese (Mn) mg/l	0.497
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	BDL
10.	Zinc (Zn) mg/l	BDL
11.	Antimony (Sb) mg/l	BDL
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	N.D
3.	Dimethoate (µg/l)	N.D
4.	Methyl Parathion (µg/l)	N.D
5.	Malathion (µg/l)	N.D
6.	Chloropyriphos (µg/l)	N.D
7.	Methyl Parathion	N.D
8.	Ethion (µg/l)	N.D
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	N.D
10.	β-BHC	N.D
11.	γ-BHC	N.D
12.	δ-BHC	N.D
13.	Total BHC (ng/l)	N.D
14.	Aldrin (ng/l)	N.D
15.	Diedrin (ng/l)	N.D
16.	α-Endosulfan	N.D
17.	Total Endosulfan (ng/l)	N.D
18.	β-Endosulfan	N.D
19.	OP'DDT	N.D
20.	PP'DDT	N.D
21.	PP'DDE	N.D
22.	Total DDT (ng/l)	N.D

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Pic.: Sampling point of Indira Nagar drain



Pic.: Confluence of Indira Nagar drain at left bank of R. Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 06/12/2016, 5:30 PM

1.	Name of the Drain	:	Vishnu Ghat (Ganga Vishnu) Drain
2.	Meeting Ganga at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	UPPCB, RO, Unnao
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	~0.8 KM
7.	Catchment area		Mishra Colony
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26°28.573'
		Longitude	: E 80°22.363'
	Distance from confluence point (may the find out over google earth/map), KM		-
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: -
		Longitude	: -
10.	Landmarks / Address of the Location		Near Vishnu Ghat, Shuklaganj, Unnao
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Zero; Almost dry <i>*As reported by UP Jal Nigam, its discharge was 0.09 MLD (measured by V-notch during June 14-19, 2015).</i>
12.	Observations	:	1. The drain is very small and the flow was too lean to be measured. Hence, sample could not be collected. 2. Too small drain to monitor regularly.
13.	Name of all monitoring officers along with Designation		1. Dr. Sanjay Kumar Singh, RA-I, CPCB, ZO(N), Lucknow 2. Dr. Vijya Singh, RA-I, CPCB, ZO(N), Lucknow 3. Mr. Vishal Maurya, Lab Asst., UPPCB, RO, Unnao 4. Mr. Asif Khan, JE, UP Jal Nigam, Unnao

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	Almost Dry
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Almost Dry
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Pic.: Vishnu Ghat drain with very lean flow



Pic.: Confluence of Vishnu Ghat drain at left bank of R. Ganga

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 24-25 October, 2016 at 12:00 pm

1.	Name of the Drain	:	City Jail Drain
2.	Meeting Ganga -	:	Confluence with R. Ganga at Left Bank
3.	Name of the Regional Office of SPCB	:	UPPCB, Unnao
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	Tannery, Textile, Chemical, Edible Oil Steel Industry, Slaughter House, Tannery Dog Chew, Leather Board
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	30 Km. approx.
7.	Catchment area		Industrial Area Akrampur-Magarwara & Leather Technology Park Banthar, CETP Banthar
8.	Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units)	Latitude	: 26°20.503'
		Longitude	: 080°32.077'
	Distance from confluence point (may the find out over google earth/map), KM		22 Km. approx.
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 26°26.068'
		Longitude	: 080°24.196'
10	Landmarks / Address of the Location		VSGOI at NH 25 (Unnao Bypass)/ Azad Marg (Ata village)
11	Flow (if in MLD) if zero indicate whether dry or stagnant	:	85.82 MLD
12	Observations	:	Sample collected at Unnao was almost dark Black/ Brown. After travelling of drain (aprox. 20-25 Km), it was observed that the water quality of the same drain has been improved and become almost clear at the point of

		confluence with R. Ganga (Majhra).
13	Name of all monitoring officers along with Designation	<ol style="list-style-type: none"> 1. Dr. Sanjay Kumar Singh, Research Associate, CPCB 2. Dr. Vijya Singh, Research Associate, CPCB 3. Sh. Kshitesh Patel , Scientific Assistant, UPPCB 4. Sh. Vishal Maurya, Lab Assistant, UPPCB 5. Er. Amit Kumar Sonkar, Project Manager Construction Unit, U.P. Jal Nigam, Lucknow 6. Er. Nikhil Prasad AE U.P. Jal Nigam, Lucknow

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.38
3.	BOD (mg/l)	109
4.	COD (mg/l)	441
5.	TSS (mg/l)	277
6.	TDS (mg/l)	5266
7.	Cl ⁻ (mg/l)	1906
8.	Sulphate	1260
9.	Sulphide	16.3
10.	Oil & Grease	12.4
11.	NH ₃ -N (mg/l)	-
12.	NO ₃ ⁻ (mg/l)	-
13.	DO (mg/l)*	-
14.	TC (MPN/ 100 ml)#	790000
15.	FC (MPN/ 100 ml)#	490000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results	Awaited
1.	Arsenic (As) mg/l	:	BDL
2.	Cadmium (Cd) mg/l	:	BDL
3.	Total Chromium (Cr) mg/l	:	2.24
4.	Copper (Cu) mg/l	:	-
5.	Iron (Fe) mg/l	:	1.48
6.	Lead (Pb) mg/l	:	BDL
7.	Manganese (Mn) mg/l	:	0.52
8.	Nickel (Ni) mg/l	:	0.02
9.	Mercury (Hg) mg/l	:	-
10.	Zinc (Zn) mg/l	:	3.02
11.	Antimony (Sb) mg/l	:	-
12.	Cobalt (Co) mg/l	:	BDL
13.	Selenium (Se) mg/l	:	-
14.	Vanadium (V) mg/l	:	-

DRAIN MONITORING FORMAT
(Pesticide)

Sl. No.	Parameters	Results	Awaited
1.	Water temperature (°C)	:	
	Pesticide Analysis Report (OPPs)	:	
2.	Monochrotophos	:	Sample not collected
3.	Dimethoate (µg/l)	:	
4.	Methyl Parathion (µg/l)	:	
5.	Malathion (µg/l)	:	
6.	Chloropyriphos (µg/l)	:	
7.	Methyl Parathion	:	
8.	Ethion (µg/l)	:	
	Pesticide Analysis Report (OCPs)	:	
9.	α-BHC	:	BDL
10.	β-BHC	:	0.53
11.	γ-BHC	:	BDL
12.	δ-BHC	:	BDL
13.	Total BHC (ng/l)	:	BDL
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL
16.	α-Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	BDL
18.	β-Endosulfan	:	BDL
19.	OP'DDT	:	BDL
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling location of City Jail Drain at Azad Marg, Unnao



Fig- Confluence of City Jail Drain & R. Ganga at village Majhra during **Post Monsoon**

DRAIN MONITORING FORMAT (Ganga)

Date & Time of sampling: 24-25 October, 2016 at 2:00 pm

1.	Name of the Drain	:	Loni Drain
2.	Meeting Ganga -	:	Confluence with R. Ganga at Left Bank
3.	Name of the Regional Office of SPCB	:	Unnao UPPCB
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	SlaughterHouse Dyeing Industry Tannery SlaughterHouse Meat Processing Unit (Self Closed) Fat unit (Self Closed) Dog Chew
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	150 Km. approx.
7.	Catchment area		Industrial Area Site-1, Site-2, Unnao City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 26°0.4.475'
		Longitude	: 080°59.210'
	Distance from confluence point (may the find out over google earth/map), KM		95 Km. approx.
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 26°29.431'
		Longitude	: 080°32.901'
10.	Landmarks / Address of the Location		A small bridge over Loni drain, when we travel towards Jamuka from Korari Kalan village.
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	21.67 MLD
12.	Observations	:	It is known as Loni River in Raebareli district and the water was clean before confluence to R. Ganga at Bhiti village.
13.	Urgent action required, if any	:	-
14.	Name of all monitoring officers along with Designation		1. Dr. Sanjay Kumar Singh, Research Associate, CPCB 2. Dr. Vijya Singh, Research Associate, CPCB 3. Sh. Kshitesh Patel , Scientific Assistant, UPPCB 4. Sh. Vishal Maurya, Lab Assistant, UPPCB 5. Er. Amit Kumar Sonkar, Project Manager Construction Unit, U.P. Jal Nigam, Lucknow 6. Er. Nikhil Prasad AE U.P. Jal Nigam, Lucknow

DRAIN MONITORING FORMAT

(General parameters)

Sl. No.	Parameters	Results	
1.	Colour	:	-
2.	pH	:	7.4
3.	BOD (mg/l)	:	736
4.	COD (mg/l)	:	1439
5.	TSS (mg/l)	:	5274
6.	TDS (mg/l)	:	4466
7.	Cl ⁻ (mg/l)	:	25.8
8.	Sulphate	:	258
9.	Sulphide	:	11
10.	Oil & Grease	:	10.4
11.	NH ₃ -N (mg/l)	:	-
12.	NO ₃ ⁻ (mg/l)	:	-
13.	DO (mg/l)*	:	-
14.	TC (MPN/ 100 ml)#	:	3300000
15.	FC (MPN/ 100 ml)#	:	3300000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT

(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results Awaited	
1.	Arsenic (As) mg/l	:	BDL
2.	Cadmium (Cd) mg/l	:	BDL
3.	Total Chromium (Cr) mg/l	:	0.2
4.	Copper (Cu) mg/l	:	-
5.	Iron (Fe) mg/l	:	0.58
6.	Lead (Pb) mg/l	:	BDL
7.	Manganese (Mn) mg/l	:	0.20
8.	Nickel (Ni) mg/l	:	BDL
9.	Mercury (Hg) mg/l	:	-
10.	Zinc (Zn) mg/l	:	1.24
11.	Antimony (Sb) mg/l	:	-
12.	Cobalt (Co) mg/l	:	BDL
13.	Selenium (Se) mg/l	:	-
14.	Vanadium (V) mg/l	:	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results Awaited
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: BDL
10.	β-BHC	: 0.64
11.	γ-BHC	: BDL
12.	δ-BHC	: BDL
13.	Total BHC (ng/l)	: BDL
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: BDL
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig. Loni Drain at Sampling Point near Korari Kala



Fig. Confluence of R. Ganga & Loni Drain at Bhati village, Raebareli during Post Monsoon (October)

IV. Data Sheet of Drains Joining River Ramganga.

DRAIN MONITORING FORMAT (Ramganga)

Date & Time of sampling: 02.11.2016 (17.00hrs)

1.	Name of the Drain	:	Nohra drain (Nasiya drain)
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Drain meets Ramganga at left bank
3.	Name of the Regional Office of SPCB	:	SPCB, Bijnor
4.	Source of pollution load:	:	(Domestic/Industrial/Mixed)- Mixed
5.	If Industrial /Mixed		Mixed (Sugar and Distillery but carries mostly domestic waste)
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	-
7.	Catchment area		Dhampur and Bijnor
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 29 ⁰ 07'13.4"N
		Longitude	: 078 ⁰ 40'0.81" E
	Distance from confluence point (may the find out over google earth/map), KM		3 Km (approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 29 ⁰ 06'15.5" N
		Longitude	: 078 ⁰ 38'52.4" E
10.	Landmarks / Address of the Location		Confluence point near Fazlabad and Rahimabad villages in chajlout block in Moradabad District.
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	14.52
12.	Observations	:	<p>Since flow measurement and sampling was not possible at confluence point, it was done at nearly 3 Km away from the confluence point. Reaching confluence point was difficult.</p> <p>Confluence point falls under Moradabad district. However, drain flows mainly through Bijnor region carrying pollution from Bijnor region. Hence, it was requested by AEE, UPPCB, Moradabad to monitor the same by Bijnor SPCB officials.</p>
13.	Urgent action required, if any	:	----
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr Brajesh Shrivastava, Sc `C`, CPCB 2. Ms. Anshul Kumari, R.A., CPCB 3. Shri Vijay, AEE , UPPCB, Moradabad 4. Shri Rajeev Shrivastava, A.S.O UPPCB Bijnor 5. 5. Shri Anjani, UPPCB 6. Shri Vimal Kumar Rajpoot, S. , UPPCB 7. Shri Bhrmhanand A.E., U.P. Jal Nigam. 8. 8.Shri Amit, Research Officer, NMCG

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	--
2.	pH	7.67
3.	BOD (mg/l)	3
4.	COD (mg/l)	19
5.	TSS (mg/l)	14
6.	TDS (mg/l)	180
7.	Cl ⁻ (mg/l)	23
8.	NH ₃ -N (mg/l)	NT
9.	NO ₃ ⁻ (mg/l)	0.55
10.	DO (mg/l)*	---
11.	TC (MPN/ 100 ml)#	13x10 ³
12.	FC (MPN/ 100 ml)#	33x10 ²

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.01
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	0.81
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.3
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	BDL
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

DRAIN MONITORING FORMAT
(Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL

6.	Chloropyriphos ($\mu\text{g/l}$)	:	BDL
7.	Methyl Parathion	:	-
8.	Ethion ($\mu\text{g/l}$)	:	BDL
Pesticide Analysis Report (OCPs)		:	
9.	α -HCH	:	BDL
1.	β -HCH	:	BDL
2.	γ -HCH	:	BDL
3.	δ -BHC	:	-
4.	Total BHC (ng/l)	:	-
5.	Aldrin (ng/l)	:	BDL
6.	Dieldrin (ng/l)	:	BDL
7.	α -Endosulfan	:	BDL
8.	Total Endosulfan (ng/l)	:	-
9.	β -Endosulfan	:	BDL
10.	OP'DDT	:	BDL
11.	PP'DDT	:	BDL
12.	PP'DDE	:	-
13.	Total DDT (ng/l)	:	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



View of confluence point



View of sampling point

DRAIN MONITORING FORMAT (Ramganga)

Date & Time of sampling: 04.11.2016 (14.00hrs)

1.	Name of the Drain	:	Rampur Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	It meets Kosi first at left bank as seen during the visit, then confluences finally in Ramganga
3.	Name of the Regional Office of SPCB	:	SPCB, Moradabad
4.	Source of pollution load:	:	(Domestic/Industrial/Mixed)- Mixed (mostly domestic)
5.	If Industrial /Mixed		Mixed (carries mainly domestic waste)
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	From origin (i.e. Rampur drain) to confluence point (i.e. meeting at Kosi river), the distance is nearly 30 Km as per available information
7.	Catchment area		Rampur
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28°38'56.6"N
		Longitude	: 079°01'06.9" E
	Distance from confluence point (may the find out over google earth/map), KM		
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°38'56.6"N
		Longitude	: 079°01'06.9" E
10.	Landmarks / Address of the Location		---
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	34.31
12.	Observations	:	As informed by the officials from the State, due to change of river course, it now meets Kosi river. From there-onwards, the final discharge is in Ramganaga
13.	Urgent action required, if any	:	----
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr Brajesh Shrivastava, Sc `C', CPCB 2. Shri Ajay Kumar, MTS, CPCB 3. Shri Vimal Kumar Rajpoot, S. A., UPPCB 4. Shri U. C. Shukla, A.E., U.P. Jal Nigam. 5. Shri Praveen Kutti, Project Manager, U.P. Jal Nigam 6. Shri Neeraj Gahlawat, Project Officer, NMCG

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.51
3.	BOD (mg/l)	58
4.	COD (mg/l)	201
5.	TSS (mg/l)	43
6.	TDS (mg/l)	876
7.	Cl ⁻ (mg/l)	169
8.	NH ₃ -N (mg/l)	34
9.	NO ₃ ⁻ (mg/l)	7.97
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	16x10 ⁵
12.	FC (MPN/ 100 ml)#	92x10 ⁴

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	0.66
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.25
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.05
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

DRAIN MONITORING FORMAT (Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
1.	Monochrotophos	-
2.	Dimethoate (µg/l)	BDL
3.	Methyl Parathion (µg/l)	BDL
4.	Malathion (µg/l)	BDL
5.	Chloropyriphos (µg/l)	BDL
6.	Methyl Parathion	--
7.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
1.	α-HCH	BDL
2.	β-HCH	0.075
3.	γ-HCH	BDL
4.	δ-HCH	-
5.	Total BHC (ng/l)	-
6.	Aldrin (ng/l)	BDL
7.	Diedrin (ng/l)	BDL
8.	α-Endosulfan	BDL
9.	Total Endosulfan (ng/l)	-
10.	β-Endosulfan	BDL
11.	OP'DDT	BDL
12.	PP'DDT	BDL
13.	PP'DDE	BDL
14.	Total DDT (ng/l)	-

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)



View of confluence point



View of sampling point

DRAIN MONITORING FORMAT (Ramganga)

Date & Time of sampling: 02.11.2016 (13.00hrs)

1.	Name of the Drain	:	Moradabad drain (Karula drain)
2.	Meeting Ganga/Ramganga/Kali-east at -	:	The drain meets Ramganga at left bank
3.	Name of the Regional Office of SPCB	:	SPCB, Moradabad
4.	Source of pollution load:	:	(Domestic/Industrial/Mixed)- Mixed
5.	If Industrial /Mixed		Mixed (but carrying mostly domestic)
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	-----
7.	Catchment area		Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28°46'19.7"N
		Longitude	: 078°49'01.6" E
	Distance from confluence point (may the find out over google earth/map), KM		
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°52'51.6" N
		Longitude	: 078°45'07.6" E
10.	Landmarks / Address of the Location		Khadakpur baje village
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	57.12
12.	Observations	:	As reported by UPPCB officials, there are 26 drains falling into Ramganga directly. However, it was found out that these are very small drains. Further inspection may be carried out to see the status.
13.	Urgent action required, if any	:	----
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr Brajesh Shrivastava, Sc `C`, CPCB 2. Ms. Anshul Kumari, R.A., CPCB 3. Shri Vijay AEE , UPPCB, Moradabad 4. Shri Vimal Kumar Rajpoot, S. A., UPPCB 5. Shri Anil Kansal, A.E., U.P. Jal Nigam. 6. Shri Praveen Kumar J.E U.P. Jal Nigam 7. Shri Amit, Research Officer, NMCG

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: --
2.	pH	: 7.34
3.	BOD (mg/l)	: 44
4.	COD (mg/l)	: 128
5.	TSS (mg/l)	: 67
6.	TDS (mg/l)	: 548
7.	Cl ⁻ (mg/l)	: 123
8.	NH ₃ -N (mg/l)	: 38
9.	NO ₃ ⁻ (mg/l)	: 2.76
10.	DO (mg/l)*	: ---
11.	TC (MPN/ 100 ml)#	: 35x10 ⁸
12.	FC (MPN/ 100 ml)#	: 24x10 ⁷

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: 0.02
4.	Copper (Cu) mg/l	: 0.04
5.	Iron (Fe) mg/l	: 2.41
6.	Lead (Pb) mg/l	: BDL
7.	Manganese (Mn) mg/l	: 0.41
8.	Nickel (Ni) mg/l	: 0.07
9.	Mercury (Hg) mg/l	: -
10.	Zinc (Zn) mg/l	: 0.11
11.	Antimony (Sb) mg/l	: -
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

DRAIN MONITORING FORMAT (Pesticide)

Sl. No.	Parameters	Results	
1.	Water temperature (°C)	:	
Pesticide Analysis Report (OPPs)		:	
2.	Monochrotophos	:	-
3.	Dimethoate (µg/l)	:	1.94
4.	Methyl Parathion (µg/l)	:	BDL
5.	Malathion (µg/l)	:	BDL
6.	Chloropyriphos (µg/l)	:	BDL
7.	Methyl Parathion	:	-
8.	Ethion (µg/l)	:	BDL
Pesticide Analysis Report (OCPs)		:	
1.	α-HCH	:	BDL
2.	β- HCH	:	0.483
3.	γ- HCH	:	BDL
4.	δ-BHC	:	-
5.	Total BHC (ng/l)	:	-
6.	Aldrin (ng/l)	:	BDL
7.	Diedrin (ng/l)	:	BDL
8.	α-Endosulfan	:	BDL
9.	Total Endosulfan (ng/l)	:	-
10.	β-Endosulfan	:	BDL
11.	OP'DDT	:	BDL
12.	PP'DDT	:	0.053
13.	PP'DDE	:	BDL
14.	Total DDT (ng/l)	:	-

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)



View of confluence point



View of sampling point

**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (6:00 pm)

1.	Name of the Drain	:	Nawabpura Drain1, Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad, UP
4.	Source of pollution load:	:	Domestic- Sewage
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	
7.	Catchment area		Nawabpura
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.846923
		Longitude	: 78.78401
	Distance from confluence point (may the find out over google earth/map), KM		50 Meters as per site
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.86056
		Longitude	: 78.770011
10.	Landmarks / Address of the Location		
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	18.144 MLD
12.	Observations	:	It was pucca drain carrying sewage from Nawabpura & Animals waste drug Measured flow on higher side, due to steep slope of channel.
13.	Urgent action required, if any	:	To Tap in a STP
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shraddha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: 7.49
2.	pH	: 131.00
3.	BOD (mg/l)	: 383.00
4.	COD (mg/l)	: 482.00
5.	TSS (mg/l)	: -
6.	TDS (mg/l)	: -
7.	Cl ⁻ (mg/l)	: -
8.	NH ₃ -N (mg/l)	: -
9.	NO ₃ ⁻ (mg/l)	: -
10.	DO (mg/l)*	: 7.49
11.	TC (MPN/ 100 ml)#	: -
12.	FC (MPN/ 100 ml)#	: -

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: 0.05
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: 0.04
4.	Copper (Cu) mg/l	: 11.60
5.	Iron (Fe) mg/l	: 59.74
6.	Lead (Pb) mg/l	: 0.22
7.	Manganese (Mn) mg/l	: 0.58
8.	Nickel (Ni) mg/l	: 0.35
9.	Mercury (Hg) mg/l	: -
10.	Zinc (Zn) mg/l	: 2.97
11.	Antimony (Sb) mg/l	: -
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	:
10.	β- HCH	:
11.	γ-HCH	:
12.	δ-HCH	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Nawabpura drain-1, about 50 metres before confluence in Ramganga

**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (6:00 pm)

1.	Name of the Drain	:	Nawabpura Drain 2, Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank Ramganga
3.	Name of the Regional Office of SPCB	:	Moradabad, UP
4.	Source of pollution load:	:	Domestic- Sewage
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	
7.	Catchment area		Nawabpura
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.84403
		Longitude	: 78.785926
	Distance from confluence point (may the find out over google earth/map), KM		50 Meters as per site
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.84403
		Longitude	: 78.785926
10.	Landmarks / Address of the Location		
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	4.32 MLD
12.	Observations	:	It was pucca drain carrying sewage from Nawabpura & Animals waste drug
13.	Urgent action required, if any	:	To Tap in a STP
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shraddha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT

(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	6.81
3.	BOD (mg/l)	193.00
4.	COD (mg/l)	343.00
5.	TSS (mg/l)	335.00
6.	TDS (mg/l)	-
7.	Cl ⁻ (mg/l)	-
8.	NH ₃ -N (mg/l)	-
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT

(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.14
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.07
4.	Copper (Cu) mg/l	0.62
5.	Iron (Fe) mg/l	4.02
6.	Lead (Pb) mg/l	0.14
7.	Manganese (Mn) mg/l	0.23
8.	Nickel (Ni) mg/l	0.13
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	1.15
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	:
10.	β- HCH	:
11.	γ-HCH	:
12.	δ-HCH	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Nawabpura drain-2, about 50 metres before confluence in Ramganga



Nawabpura drain-2, sample showing presence of animals waste (dung)

**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (1:30 pm)

1.	Name of the Drain	:	Vivekanand Hospital-Left, Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank Ramganga
3.	Name of the Regional Office of SPCB	:	MBD UP
4.	Source of pollution load:	:	Domestic-Sewage
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx. 2 Km
7.	Catchment area		Local Colony
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.8875
		Longitude	78.7350
	Distance from confluence point (may the find out over google earth/map), KM		50 Meters approx..
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.8875
		Longitude	78.7350
10.	Landmarks / Address of the Location		Baldev Agrawal Natwaraphy
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	0.114 MLD
12.	Observations	:	Negligible flow of sewage draining in river. Sewage channel, full of lebris.
13.	Urgent action required, if any	:	May be connected with adjacent road side drain
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shraddha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.50
3.	BOD (mg/l)	317
4.	COD (mg/l)	709
5.	TSS (mg/l)	440
6.	TDS (mg/l)	-
7.	Cl ⁻ (mg/l)	-
8.	NH ₃ -N (mg/l)	-
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Sample not collected
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters		Results
1.	Water temperature (°C)	:	
Pesticide Analysis Report (OPPs)		:	
2.	Monochrotophos	:	Sample not collected
3.	Dimethoate (µg/l)	:	
4.	Methyl Parathion (µg/l)	:	
5.	Malathion (µg/l)	:	
6.	Chloropyriphos (µg/l)	:	
7.	Methyl Parathion	:	
8.	Ethion (µg/l)	:	
Pesticide Analysis Report (OCPs)		:	
9.	α-HCH	:	Sample not collected
10.	β- HCH	:	
11.	γ-HCH	:	
12.	δ-HCH	:	
13.	Total BHC (ng/l)	:	
14.	Aldrin (ng/l)	:	
15.	Diedrin (ng/l)	:	
16.	α-Endosulfan	:	
17.	Total Endosulfan (ng/l)	:	
18.	β-Endosulfan	:	
19.	OP'DDT	:	
20.	PP'DDT	:	
21.	PP'DDE	:	
22.	Total DDT (ng/l)	:	

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (12:45 pm to 1:15 pm)

1.	Name of the Drain	:	Vivekanand Hosptal-Right , Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank Ramganga
3.	Name of the Regional Office of SPCB	:	Moradabad, UP
4.	Source of pollution load:	:	Domestic- Sewage
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	2 Km approx.
7.	Catchment area		Local Area
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	28.8980
		Longitude	78.7420
	Distance from confluence point (may the find out over google earth/map), KM		50 Meters as per site
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	28.8980
		Longitude	78.7420
10.	Landmarks / Address of the Location		-
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	7.96 MLD
12.	Observations	:	Sewage channel discharging into the river Ramganga.
13.	Urgent action required, if any	:	To Tap in a STP
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shraddha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.64
3.	BOD (mg/l)	19.00
4.	COD (mg/l)	53.00
5.	TSS (mg/l)	25.00
6.	TDS (mg/l)	-
7.	Cl ⁻ (mg/l)	-
8.	NH ₃ -N (mg/l)	24.00
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	16x10 ⁷
12.	FC (MPN/ 100 ml)#	92x10 ⁷

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.02
5.	Iron (Fe) mg/l	1.12
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.24
8.	Nickel (Ni) mg/l	0.07
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.44
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results	
1.	Water temperature (°C)	:	
Pesticide Analysis Report (OPPs)		:	
2.	Monochrotophos	:	-
3.	Dimethoate (µg/l)	:	BDL
4.	Methyl Parathion (µg/l)	:	BDL
5.	Malathion (µg/l)	:	BDL
6.	Chloropyriphos (µg/l)	:	BDL
7.	Methyl Parathion	:	BDL
8.	Ethion (µg/l)	:	BDL
Pesticide Analysis Report (OCPs)		:	
9.	α-HCH	:	BDL
10.	β- HCH	:	BDL
11.	γ-HCH	:	BDL
12.	δ-HCH	:	-
13.	Total BHC (ng/l)	:	-
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL
16.	α-Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	BDL
18.	β-Endosulfan	:	BDL
19.	OP'DDT	:	BDL
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Vivekanand Hospital drain (Right)
100 metres before confluence



Vivekanand Hospital drain (Right) at
confluence in Ramganga

**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (3:15 pm)

1.	Name of the Drain	:	MIT drain, Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank Ramganga
3.	Name of the Regional Office of SPCB	:	Moradabad, UP
4.	Source of pollution load:	:	Domestic-Sewage
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx. 2 Km
7.	Catchment area		Naveen Nagar
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	:
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM		1 Km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	:
		Longitude	
			28.871429 78.755637
10.	Landmarks / Address of the Location		
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	18.360 MLD
12.	Observations	:	It was apucka drain (constructed) carrying sewage from the colony
13.	Urgent action required, if any	:	To tap into a STP
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shradha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.36
3.	BOD (mg/l)	107.00
4.	COD (mg/l)	240.00
5.	TSS (mg/l)	251.00
6.	TDS (mg/l)	-
7.	Cl ⁻ (mg/l)	-
8.	NH ₃ -N (mg/l)	22.00
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	79x10 ⁵
12.	FC (MPN/ 100 ml)#	79x10 ⁵

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.02
5.	Iron (Fe) mg/l	1.57
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.30
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.07
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.01

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
	Monochrotophos	: BDL
	Dimethoate (µg/l)	: BDL
	Methyl Parathion (µg/l)	: BDL
	Malathion (µg/l)	: BDL
	Chloropyriphos (µg/l)	: BDL
	Methyl Parathion	: BDL
	Ethion (µg/l)	: BDL
	Pesticide Analysis Report (OCPs)	:
	α-HCH	: BDL
	β- HCH	: BDL
	γ-HCH	: BDL
	δ-HCH	: -
	Total BHC (ng/l)	: -
	Aldrin (ng/l)	: BDL
	Diedrin (ng/l)	: BDL
	α-Endosulfan	: BDL
	Total Endosulfan (ng/l)	: BDL
	β-Endosulfan	: BDL
	OP'DDT	: BDL
	PP'DDT	: BDL
	PP'DDE	: BDL
	Total DDT (ng/l)	: BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (2:00 pm to 2:30 pm)

1.	Name of the Drain	:	Moksh Dham Drain Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad, UP
4.	Source of pollution load:	:	Domestic- Sewage
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	3 Km approx.
7.	Catchment area		Ramganga vihar and Ashiana
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.88106
		Longitude	: 78.7523
	Distance from confluence point (may the find out over google earth/map), KM		100 Meters approx.
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.88106
		Longitude	: 78.7523
10.	Landmarks / Address of the Location		-
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	15.749 MLD
12.	Observations	:	Sewage Channel discharging into the river Ramganga
13.	Urgent action required, if any	:	To Tap in a STP
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shraddha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	:
2.	pH	7.41
3.	BOD (mg/l)	68.00
4.	COD (mg/l)	131.00
5.	TSS (mg/l)	69.00
6.	TDS (mg/l)	-
7.	Cl ⁻ (mg/l)	-
8.	NH ₃ -N (mg/l)	22.00
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	92x10 ⁶
12.	FC (MPN/ 100 ml)#	92x10 ⁶

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: 0.03
5.	Iron (Fe) mg/l	: 1.06
6.	Lead (Pb) mg/l	: BDL
7.	Manganese (Mn) mg/l	: 0.29
8.	Nickel (Ni) mg/l	: 0.03
9.	Mercury (Hg) mg/l	: BDL
10.	Zinc (Zn) mg/l	: 0.10
11.	Antimony (Sb) mg/l	: -
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	: BDL
3.	Dimethoate (µg/l)	: BDL
4.	Methyl Parathion (µg/l)	: BDL
5.	Malathion (µg/l)	: BDL
6.	Chloropyriphos (µg/l)	: BDL
7.	Methyl Parathion	: BDL
8.	Ethion (µg/l)	: BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	: BDL
10.	β- HCH	: BDL
11.	γ-HCH	: BDL
12.	δ-HCH	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: BDL
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (1:30 pm)

1.	Name of the Drain	:	TDI City Drain, Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank Ramganga
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Domestic-Sewage
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx. 2 Km
7.	Catchment area		TDI City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	:
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM		1 Km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	:
		Longitude	
			28.875671 78.756043
10.	Landmarks / Address of the Location		Narsal Ghat Police Check Post, Bulandshahr, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	4.838 MLD
12.	Observations	:	It was a pucca drain (constructed) carrying sewage from TDI city and was fully covered
13.	Urgent action required, if any	:	To tap into a STP
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shradha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.44
3.	BOD (mg/l)	72.00
4.	COD (mg/l)	181.00
5.	TSS (mg/l)	231.00
6.	TDS (mg/l)	-
7.	Cl ⁻ (mg/l)	-
8.	NH ₃ -N (mg/l)	11.00
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	92x10 ⁶
12.	FC (MPN/ 100 ml)#	54x10 ⁶

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.01
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.02
4.	Copper (Cu) mg/l	0.08
5.	Iron (Fe) mg/l	8.40
6.	Lead (Pb) mg/l	0.03
7.	Manganese (Mn) mg/l	0.82
8.	Nickel (Ni) mg/l	0.01
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.33
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.02

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	BDL
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	BDL
10.	β- HCH	BDL
11.	γ-HCH	BDL
12.	δ-HCH	-
13.	Total BHC (ng/l)	-
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (5:00 pm)

1.	Name of the Drain	:	Chakkar Ki Milak, Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank Ramganga
3.	Name of the Regional Office of SPCB	:	Moradabad, UP
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	1 Km
7.	Catchment area		Chakkar Ki Milak & Mukkarrumpur
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.8609
		Longitude	78.7700
	Distance from confluence point (may the find out over google earth/map), KM		50 Meters as per site
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.86056
		Longitude	78.770011
10.	Landmarks / Address of the Location		
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.0368 MLD
12.	Observations	:	Sewage channel for disposal of locality wastewater into the river
13.	Urgent action required, if any	:	
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shradha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	:
2.	pH	7.56
3.	BOD (mg/l)	148.00
4.	COD (mg/l)	255.00
5.	TSS (mg/l)	156.00
6.	TDS (mg/l)	-
7.	Cl ⁻ (mg/l)	-
8.	NH ₃ -N (mg/l)	-
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: 0.08
5.	Iron (Fe) mg/l	: 1.31
6.	Lead (Pb) mg/l	: 0.07
7.	Manganese (Mn) mg/l	: 0.14
8.	Nickel (Ni) mg/l	: 0.01
9.	Mercury (Hg) mg/l	: -
10.	Zinc (Zn) mg/l	: 0.44
11.	Antimony (Sb) mg/l	: -
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	:
10.	β- HCH	:
11.	γ-HCH	:
12.	δ-HCH	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Confluence

**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06.12.2016 (5:45 pm)

1.	Name of the Drain	:	Jigar Colony Moradabad
2.	Meeting Ganga/Ramganga/kali-east at	:	Left bank Ramganga
3.	Name of the Regional Office of SPCB	:	Moradabad, UP
4.	Source of pollution load:	:	Domestic- Sewage
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	2 Km approx.
7.	Catchment area		Jigar Colony
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.854064
		Longitude	: 78.773961
	Distance from confluence point (may the find out over google earth/map), KM		50 Meters as per site
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.8506
		Longitude	: 78.7739
10.	Landmarks / Address of the Location		-
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	11.405 MLD
12.	Observations	:	Sewage channel discharging locality sewage into the river Ramganga. Measured flow appears on higher side due to steep bed slope
13.	Urgent action required, if any	:	To Tap in a STP
14.	Name of all monitoring officers along with Designation		1. A. K. Kansal, A.E UPJN 2. Mr. C.B. Chourasia, Sc 'E', CPCB 3. Ms. Shraddha Lonarkar, RA-1 4. Mr. P.P. Singh, JE, UPPCB, MBD 5. Mr. Bipin kandpal, SA, UPPCB, MBD 6. Mohd. Aham, JE

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.57
3.	BOD (mg/l)	236.00
4.	COD (mg/l)	606.00
5.	TSS (mg/l)	596.00
6.	TDS (mg/l)	-
7.	Cl ⁻ (mg/l)	-
8.	NH ₃ -N (mg/l)	-
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.02
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.15
5.	Iron (Fe) mg/l	3.17
6.	Lead (Pb) mg/l	0.05
7.	Manganese (Mn) mg/l	0.25
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.28
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.01

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	Sample not collected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-HCH	Sample not collected
10.	β- HCH	
11.	γ-HCH	
12.	δ-HCH	
13.	Total BHC (ng/l)	
14.	Aldrin (ng/l)	
15.	Diedrin (ng/l)	
16.	α-Endosulfan	
17.	Total Endosulfan (ng/l)	
18.	β-Endosulfan	
19.	OP'DDT	
20.	PP'DDT	
21.	PP'DDE	
22.	Total DDT (ng/l)	

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 12.30 pm

1.	Name of the Drain	:	Katghar Railway Station Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	Electroplating
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	3 km (Meets Ramganga)
7.	Catchment area		Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 49'48.0957"
		Longitude	: 78 ⁰ 48'37.2821"
	Distance from confluence point (may the find out over google earth/map), KM		60 m (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 49'48.0957"
		Longitude	: 78 ⁰ 48'37.2821"
10.	Landmarks / Address of the Location		Near Railway bridge, Katghar
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Not measurable
12.	Observations	:	Joined by Prabaht Market Drain at the bank of river Rmaganga and the conduit opens directly into the river.
13.	Urgent action required, if any	:	Tapping of the drain and treatment through STP.
14.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.17
3.	BOD (mg/l)	173.00
4.	COD (mg/l)	303.00
5.	TSS (mg/l)	375.00
6.	TDS (mg/l)	1284.00
7.	Cl ⁻ (mg/l)	231.00
8.	NH ₃ -N (mg/l)	49.00
9.	NO ₃ ⁻ (mg/l)	5.49
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.06
4.	Copper (Cu) mg/l	0.87
5.	Iron (Fe) mg/l	14.81
6.	Lead (Pb) mg/l	0.09
7.	Manganese (Mn) mg/l	0.33
8.	Nickel (Ni) mg/l	0.96
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	1.83
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results	
1.	Water temperature (°C)	:	
Pesticide Analysis Report (OPPs)		:	
2.	Monochrotophos	:	BDL
3.	Dimethoate (µg/l)	:	BDL
4.	Methyl Parathion (µg/l)	:	BDL
5.	Malathion (µg/l)	:	BDL
6.	Chloropyriphos (µg/l)	:	BDL
7.	Methyl Parathion	:	BDL
8.	Ethion (µg/l)	:	BDL
Pesticide Analysis Report (OCPs)		:	<i>Results Awaited</i>
9.	α-HCH	:	BDL
10.	β- HCH	:	0.06
11.	γ-HCH	:	BDL
12.	δ-HCH	:	-
13.	Total BHC (ng/l)	:	0.06
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL
16.	α-Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	BDL
18.	β-Endosulfan	:	BDL
19.	OP'DDT	:	BDL
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 1.10 pm

1.	Name of the Drain	:	Barbalan Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	Electroplating
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	1.5 km (Meets Ramganga)
7.	Catchment area		Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 49'37.3429"
		Longitude	: 78 ⁰ 48'15.1721"
	Distance from confluence point (may the find out over google earth/map), KM		25 m (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 49'37.3429"
		Longitude	: 78 ⁰ 48'15.1721"
10.	Landmarks / Address of the Location		Barbalan Mohalla
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Not measurable
12.	Observations	:	Due to solid waste the surface of the drain was covered. Under flow was observed. Local people hold the waste water before confluence to river Ramganga by making bands for extracting material valuables.
13.	Urgent action required, if any	:	<ul style="list-style-type: none"> • Dumping of solid wastes should be immediately checked. • Tapping of the drain and treatment through STP.
14.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.59
3.	BOD (mg/l)	178.00
4.	COD (mg/l)	350.00
5.	TSS (mg/l)	257.00
6.	TDS (mg/l)	1112.00
7.	Cl ⁻ (mg/l)	243.00
8.	NH ₃ -N (mg/l)	35.00
9.	NO ₃ ⁻ (mg/l)	2.73
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.02
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.02
4.	Copper (Cu) mg/l	0.58
5.	Iron (Fe) mg/l	7.46
6.	Lead (Pb) mg/l	0.23
7.	Manganese (Mn) mg/l	0.24
8.	Nickel (Ni) mg/l	0.75
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	1.34
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	: BDL
3.	Dimethoate (µg/l)	: BDL
4.	Methyl Parathion (µg/l)	: BDL
5.	Malathion (µg/l)	: BDL
6.	Chloropyriphos (µg/l)	: BDL
7.	Methyl Parathion	: BDL
8.	Ethion (µg/l)	: BDL
Pesticide Analysis Report (OCPs)		: <i>Results Awaited</i>
9.	α-HCH	: BDL
10.	β- HCH	: 0.15
11.	γ-HCH	: 0.11
12.	δ-HCH	:
13.	Total BHC (ng/l)	: 0.26
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: 0.13
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: 0.13

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 1.40 pm

1.	Name of the Drain	:	Kudaghar Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	3.0 km (Meets Ramganga)
7.	Catchment area		Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 50'9.2994"
		Longitude	: 78 ⁰ 47'49.216899"
	Distance from confluence point (may the find out over google earth/map), KM		25 m (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 50'9.2994"
		Longitude	: 78 ⁰ 47'49.216899"
10.	Landmarks / Address of the Location		Near Kunwar Sahab wali Gali
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	11.7
12.	Observations	:	Dumping of Solid Wastes was seen during the visit.
13.	Urgent action required, if any	:	<ul style="list-style-type: none"> • Dumping of solid wastes should be immediately checked. • Tapping of the drain and treatment through STP.
14.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.56
3.	BOD (mg/l)	186.00
4.	COD (mg/l)	384.00
5.	TSS (mg/l)	314.00
6.	TDS (mg/l)	904.00
7.	Cl ⁻ (mg/l)	146.00
8.	NH ₃ -N (mg/l)	34.00
9.	NO ₃ ⁻ (mg/l)	10.27
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.01
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.31
4.	Copper (Cu) mg/l	0.96
5.	Iron (Fe) mg/l	2.92
6.	Lead (Pb) mg/l	0.12
7.	Manganese (Mn) mg/l	0.32
8.	Nickel (Ni) mg/l	0.45
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	1.59
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	: BDL
3.	Dimethoate (µg/l)	: BDL
4.	Methyl Parathion (µg/l)	: BDL
5.	Malathion (µg/l)	: BDL
6.	Chloropyriphos (µg/l)	: BDL
7.	Methyl Parathion	: BDL
8.	Ethion (µg/l)	: BDL
Pesticide Analysis Report (OCPs)		: <i>Results Awaited</i>
9.	α-HCH	: BDL
10.	β- HCH	: BDL
11.	γ-HCH	: 0.06
12.	δ-HCH	: -
13.	Total BHC (ng/l)	: 0.06
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: 0.09
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: 0.09

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 2.25 pm

1.	Name of the Drain	:	Jama Masjid (Left) Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	3.0 km (Meets Ramganga)
7.	Catchment area		Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28°50'9.2894"
		Longitude	: 78°47'49.2169"
	Distance from confluence point (may the find out over google earth/map), KM		8 m (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°50'9.2994"
		Longitude	: 78°47'49.216899"
10.	Landmarks / Address of the Location		Near Jama Masjid, Under bridge
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Not measurable
12.	Observations	:	<ul style="list-style-type: none"> • Effluent flowing along the wall of a building with unsteady flow and negligible water. • Dumping of Solid Wastes choking the flow of the drain.
13.	Urgent action required, if any	:	<ul style="list-style-type: none"> • Dumping of solid wastes should be immediately checked. • Tapping of the drain and treatment through STP may be considered.
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.47
3.	BOD (mg/l)	108.00
4.	COD (mg/l)	225.00
5.	TSS (mg/l)	324.00
6.	TDS (mg/l)	940.00
7.	Cl ⁻ (mg/l)	144.00
8.	NH ₃ -N (mg/l)	26.00
9.	NO ₃ ⁻ (mg/l)	4.90
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.02
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.06
4.	Copper (Cu) mg/l	0.28
5.	Iron (Fe) mg/l	11.74
6.	Lead (Pb) mg/l	0.06
7.	Manganese (Mn) mg/l	0.32
8.	Nickel (Ni) mg/l	0.33
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	3.13
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	: BDL
3.	Dimethoate (µg/l)	: BDL
4.	Methyl Parathion (µg/l)	: BDL
5.	Malathion (µg/l)	: BDL
6.	Chloropyriphos (µg/l)	: BDL
7.	Methyl Parathion	: BDL
8.	Ethion (µg/l)	: BDL
Pesticide Analysis Report (OCPs)		: <i>Results Awaited</i>
9.	α-HCH	: BDL
10.	β- HCH	: BDL
11.	γ-HCH	: 0.06
12.	δ-HCH	: -
13.	Total BHC (ng/l)	: 0.06
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: BDL
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 2.35 pm

1.	Name of the Drain	:	Jama Masjid (Right) Drain
2.	Please indicate serial number or ID if, name of the drain is appearing in the given list else mentioned "new"	:	New
3.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
4.	Name of the Regional Office of SPCB	:	Moradabad
5.	Source of pollution load:	:	Domestic
6.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	
7.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	1.0 km (Meets Ramganga)
8.	Catchment area		Parts of Moradabad
9.	Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units)	Latitude	: 28°49'48.0957"
		Longitude	: 78°48'37.282"
	Distance from confluence point (may the find out over google earth/map), KM		15 m (Approx.)
10	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°49'48.0957"
		Longitude	: 78°48'37.282"
11	Landmarks / Address of the Location		Near Jama Masjid, Under bridge
12	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Not measurable
13	Observations	:	The concrete channel terminates into a water logged area filled with solid wastes. From there, a small channel leads to the river. Buffalo business was flourishing on the bank of the river.
14	Urgent action required, if any	:	Dumping of solid wastes should be immediately checked. Tapping of the drain and treatment through STP may be considered.
15	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.29
3.	BOD (mg/l)	180.00
4.	COD (mg/l)	486.00
5.	TSS (mg/l)	884.00
6.	TDS (mg/l)	908.00
7.	Cl ⁻ (mg/l)	111.00
8.	NH ₃ -N (mg/l)	49.00
9.	NO ₃ ⁻ (mg/l)	4.38
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.04
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.52
4.	Copper (Cu) mg/l	3.78
5.	Iron (Fe) mg/l	36.69
6.	Lead (Pb) mg/l	0.32
7.	Manganese (Mn) mg/l	0.49
8.	Nickel (Ni) mg/l	0.70
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	2.50
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.02

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	BDL
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	BDL
10.	β- HCH	BDL
11.	γ-HCH	BDL
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 16.15 pm

1.	Name of the Drain	:	Ghosiyan Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	2.0 km (Meets Ramganga)
7.	Catchment area		Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28°51'17.0369"
		Longitude	: 78°46'9.6533"
	Distance from confluence point (may the find out over google earth/map), KM		30 m (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°51'17.0369"
		Longitude	: 78°46'9.6533"
10.	Landmarks / Address of the Location		Near Nawabpura, Thana - Nagfani
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	6.5
12.	Observations	:	The waste water scatters into patches before confluence due to heavy dumping of Solid Wastes choking the flow of the drain. Erratic flow.
13.	Urgent action required, if any	:	Dumping of solid wastes should be immediately checked. Tapping of the drain and treatment through STP.
14.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.63
3.	BOD (mg/l)	1.70
4.	COD (mg/l)	377.00
5.	TSS (mg/l)	683.00
6.	TDS (mg/l)	1420.00
7.	Cl ⁻ (mg/l)	78.00
8.	NH ₃ -N (mg/l)	25.00
9.	NO ₃ ⁻ (mg/l)	46.59
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.05
2.	Cadmium (Cd) mg/l	0.01
3.	Total Chromium (Cr) mg/l	0.14
4.	Copper (Cu) mg/l	4.00
5.	Iron (Fe) mg/l	136.49
6.	Lead (Pb) mg/l	0.46
7.	Manganese (Mn) mg/l	0.76
8.	Nickel (Ni) mg/l	2.57
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	6.69
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	0.02
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	BDL
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	BDL
10.	β- HCH	0.05
11.	γ-HCH	0.10
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.25
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	0.25

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 16.35 pm

1.	Name of the Drain	:	Jhabbu Ka Nala
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	2.0 km (Meets Ramganga)
7.	Catchment area		Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 50'40.9193"
		Longitude	: 78 ⁰ 46'50.3575"
	Distance from confluence point (may the find out over google earth/map), KM		35 m (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 51'17.0369"
		Longitude	: 78 ⁰ 46'9.6533"
10.	Landmarks / Address of the Location		Near Nawabpura, Thana - Nagfani
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	20.7
12.	Observations	:	Heavy dumping of Solid Wastes choking the flow of the drain.
13.	Urgent action required, if any	:	<ul style="list-style-type: none"> • Dumping of solid wastes should be immediately checked. • Tapping of the drain and treatment through STP.
14.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	6.37
3.	BOD (mg/l)	165.00
4.	COD (mg/l)	290.00
5.	TSS (mg/l)	342.00
6.	TDS (mg/l)	920.00
7.	Cl ⁻ (mg/l)	96.00
8.	NH ₃ -N (mg/l)	69.00
9.	NO ₃ ⁻ (mg/l)	22.02
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.02
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.04
4.	Copper (Cu) mg/l	5.19
5.	Iron (Fe) mg/l	36.01 34.01
6.	Lead (Pb) mg/l	1.39
7.	Manganese (Mn) mg/l	0.35
8.	Nickel (Ni) mg/l	1.16
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	3.17
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	0.01
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters		Results
1.	Water temperature (°C)	:	
	Pesticide Analysis Report (OPPs)	:	
2.	Monochrotophos	:	BDL
3.	Dimethoate (µg/l)	:	BDL
4.	Methyl Parathion (µg/l)	:	BDL
5.	Malathion (µg/l)	:	BDL
6.	Chloropyriphos (µg/l)	:	BDL
7.	Methyl Parathion	:	BDL
8.	Ethion (µg/l)	:	BDL
	Pesticide Analysis Report (OCPs)	:	
9.	α-HCH	:	BDL
10.	β- HCH	:	BDL
11.	γ-HCH	:	0.06
12.	δ-HCH	:	BDL
13.	Total BHC (ng/l)	:	BDL
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL
16.	α-Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	BDL
18.	β-Endosulfan	:	BDL
19.	OP'DDT	:	BDL
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 17.00 pm

1.	Name of the Drain	:	Lalbagh Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	3.0 km (Meets Ramganga)
7.	Catchment area		Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 50'9.1689"
		Longitude	: 78 ⁰ 48'0.5603"
	Distance from confluence point (may the find out over google earth/map), KM		25 m (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 50'9.1689"
		Longitude	: 78 ⁰ 48'0.5603"
10.	Landmarks / Address of the Location		Near Kali Mata Mandir
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	4.9
12.	Observations	:	Heavy dumping of Solid Wastes choking the flow of the drain.
13.	Urgent action required, if any	:	<ul style="list-style-type: none"> • Dumping of solid wastes should be immediately checked. • Tapping of the drain and treatment through STP.
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	:
2.	pH	7.43
3.	BOD (mg/l)	267.00
4.	COD (mg/l)	729.00
5.	TSS (mg/l)	461.00
6.	TDS (mg/l)	832.00
7.	Cl ⁻ (mg/l)	89.00
8.	NH ₃ -N (mg/l)	29.00
9.	NO ₃ ⁻ (mg/l)	1.82
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.13
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.01
4.	Copper (Cu) mg/l	1.62
5.	Iron (Fe) mg/l	2.93
6.	Lead (Pb) mg/l	0.35
7.	Manganese (Mn) mg/l	0.29
8.	Nickel (Ni) mg/l	0.17
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	3.22
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results	
1.	Water temperature (°C)	:	
Pesticide Analysis Report (OPPs)		:	
2.	Monochrotophos	:	BDL
3.	Dimethoate (µg/l)	:	BDL
4.	Methyl Parathion (µg/l)	:	BDL
5.	Malathion (µg/l)	:	BDL
6.	Chloropyriphos (µg/l)	:	BDL
7.	Methyl Parathion	:	BDL
8.	Ethion (µg/l)	:	BDL
Pesticide Analysis Report (OCPs)		:	
9.	α-HCH	:	BDL
10.	β- HCH	:	BDL
11.	γ-HCH	:	0.07
12.	δ-HCH	:	BDL
13.	Total BHC (ng/l)	:	BDL
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL
16.	α-Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	BDL
18.	β-Endosulfan	:	BDL
19.	OP'DDT	:	0.08
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	0.08

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 17.25 pm

1.	Name of the Drain	:	Dateria/Daheria Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	3.0 km (Meets Ramganga)
7.	Catchment area	:	Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 49'48.0957"
		Longitude	: 78 ⁰ 48'37.2821"
	Distance from confluence point (may the find out over google earth/map), KM	:	26 m (Approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 49'48.0957"
		Longitude	: 78 ⁰ 48'37.2821"
10.	Landmarks / Address of the Location	:	Near Hathi ka Mandir / Rani ka Phatak
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	20.4
12.	Observations	:	Heavy dumping of Solid Wastes choking the flow of the drain.
13.	Urgent action required, if any	:	<ul style="list-style-type: none"> • Dumping of solid wastes should be immediately checked. • Tapping of the drain and treatment through STP.
14.	Name of all monitoring officers along with Designation	:	<ol style="list-style-type: none"> 1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

DRAIN MONITORING FORMAT
(General parameters) *Results Awaited*

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.54
3.	BOD (mg/l)	192.00
4.	COD (mg/l)	459.00
5.	TSS (mg/l)	269.00
6.	TDS (mg/l)	580.00
7.	Cl ⁻ (mg/l)	50.00
8.	NH ₃ -N (mg/l)	24.00
9.	NO ₃ ⁻ (mg/l)	6.75
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal) *Results Awaited*

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	0.04
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.27
4.	Copper (Cu) mg/l	1.42
5.	Iron (Fe) mg/l	1.96
6.	Lead (Pb) mg/l	0.14
7.	Manganese (Mn) mg/l	0.21
8.	Nickel (Ni) mg/l	0.85
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	1.66
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	: BDL
3.	Dimethoate (µg/l)	: BDL
4.	Methyl Parathion (µg/l)	: BDL
5.	Malathion (µg/l)	: BDL
6.	Chloropyriphos (µg/l)	: BDL
7.	Methyl Parathion	: BDL
8.	Ethion (µg/l)	: BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	: BDL
10.	β- HCH	: BDL
11.	γ-HCH	: 0.11
12.	δ-HCH	: BDL
13.	Total BHC (ng/l)	: BDL
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: 0.08
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)s	: 0.08

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 06-12-2016 at 12.00 noon

1.	Name of the Drain	:	Prabhat Nagar Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Left bank Ramganga
3.	Name of the Regional Office of SPCB	:	Moradabad
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	Electroplating
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	
7.	Catchment area		Parts of Moradabad
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM		
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	28 ⁰ 49'19.3116"
		Longitude	78 ⁰ 47'14.0332"
10.	Landmarks / Address of the Location		Lohia Impex Manf. & Exports
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Full of solid waste flow could not be measured
12.	Observations	:	As informed by the UP Jal Nigam officers- the drain confluences with Katghar railway station drain.
13.	Urgent action required, if any	:	
14.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. "C", CPCB 2. Dr. Sananda Sinha, RA-I, CPCB 3. Mr. P. C. Sharma, P.E., U.P. Jal Nigam 4. Dr. U. C. Shukla, ASO, RO, Moradabad 5. Mr. Akash Joshi, Lab. Assnt., RO, Moradabad

The drain was again visited by UPPCB and Jal Nigam on 14.12.2016.

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: Sample could not be taken
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: Sample could not be taken
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	:
10.	β- HCH	:
11.	γ-HCH	:
12.	δ-HCH	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**




DRAIN MONITORING FORMAT (Ramganga)

Date & Time of sampling: 01.11.2016& 4:00 pm

1.	Name of Drain	:	Devraniya Drain (River)
3.	Confluence with R. Ramganga	:	Left bank
4.	Name of the Regional Office of SPCB	:	Regional Office,UPPCB, Bareilly
5.	Source of Pollution Load	:	Mixed
6.	If Industrial/ Mixed (Name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	Sector Chemical Agro based
7.	Traceable length (in Km) before meeting Ganga (through Google earth/ map)	:	Approx. 130 KM
8.	Catchment area	:	Durga Nagar, City railway Colony, Katghar, Beharipur, Gulab Nagar, Alamgiriganj, Gangapur, Shrinath Puram, Shiv Vihar Colony, Asha Vihar Colony, Shastri Nagar, Gandhi Puram, Karmchary Nagar, Greater Akash Colony, BDA Colony, Ram Nagar, Raza Nagar, AnandVihar, Shikarpur, Chowki Ashraf, Maula Nagar, Civil Lines, Englishganj, CheepiTola, Bakarganj
9.	Co-ordinate of the confluence point (if not reachable indirect though Google earth/ map) (Decimal units)	Latitude	: E 079°22.260'
		Longitude	: N 28°19.739'
	Distance from confluence point (may the find out over Google earth/map), KM	:	Approx. 5 KM
10.	Co-ordinate of the sampling point (decimal units)	Latitude	: E 079°22.702'
		Longitude	: N 28°20.975'
11.	Landmarks/ Address of the location	:	Sarai Talfi Village, Bareilly
12.	Flow (if in MLD) if Zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 287.44 MLD

13	Characteristics	Colour	:	-
		pH	:	6.99
		BOD (mg/l)	:	40.2
		COD (mg/l)	:	169
		TSS	:	104
		TDS	:	393
		PO ₄ ³⁻	:	1.13
		Cl ⁻	:	28.2
		NH ₃ -N	:	8.38
		NO ₃ ⁻	:	0.6
		For Fresh water carrying drains/rivers	DO	:
For sewage, mixed Drains & River	TC (MPN/100ml)	:	2,20,00,000	
	FC (MPN/100ml)	:	1,70,00,000	

15	<p>Photographs with captions- Sampling & Confluence point (Add date & Time stamping in camera)</p>  <p>Devraniya drain meeting R. Ramganga on its left bank at ViryaNarainpur Village.</p>



Sampling location of Devraniya drain at Sarai Talfi Village.

16 .	Observations	:	The drain touches the Bareilly city on its Western boundry and meets R. Ramganga on its left bank approx. 05 KM away from Bareilly city at ViryaNarainpur Village.
17 .	Name of all monitoring officers along with designation	:	<ol style="list-style-type: none"> 1. Sh. Ram Balak Singh, Scientist C, CPCB, ZO(N) 2. Dr. Sanjay Kumar Singh, RA-I, CPCB, ZO(N) 3. Dr. Anant Dubey, ASO, UPPCB, RO, Bareily 4. Sh. Mohit Rai, AE, UP Jal Nigam, Bareily

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: BDL
5.	Iron (Fe) mg/l	: 4.82
6.	Lead (Pb) mg/l	: 0.063
7.	Manganese (Mn) mg/l	: 0.108
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: BDL
10.	Zinc (Zn) mg/l	: BDL
11.	Antimony (Sb) mg/l	: BDL
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

DRAIN MONITORING FORMAT
(Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: -
Pesticide Analysis Report (OPPs)		: :
2.	Monochrotophos (µg/l)	: N.D
3.	Dimethoate (µg/l)	: N.D
4.	Methyl Parathion (µg/l)	: N.D
5.	Malathion (µg/l)	: N.D
6.	Chloropyriphos (µg/l)	: N.D
7.	Ethion (µg/l)	: N.D
Pesticide Analysis Report (OCPs)		: :
8.	α-BHC (µg/l)	: N.D
9.	β-BHC (µg/l)	: N.D
10.	γ-BHC (µg/l)	: N.D
11.	δ-BHC (µg/l)	: N.D
12.	Total BHC (µg/l)	: N.D
13.	Aldrin (µg/l)	: N.D
14.	Diedrin (µg/l)	: N.D
15.	α-Endosulfan (µg/l)	: N.D
16.	Total Endosulfan (µg/l)	: N.D
17.	β-Endosulfan (µg/l)	: N.D
18.	OP'DDT (µg/l)	: 1.50
19.	PP'DDT (µg/l)	: N.D
20.	PP'DDE (µg/l)	: N.D
21.	Total DDT (µg/l)	: N.D

N.D- Not Detected

DRAIN MONITORING FORMAT (Ramganga)

Date & Time of sampling: 02.11.2016& 3:00pm

1.	Name of Drain	:	Chawari (Chaubari) Drain
3.	Confluence with R. Ramganga	:	Left bank
4.	Name of the Regional Office of SPCB	:	Regional Office,UPPCB, Bareilly
5.	Source of Pollution Load	:	Domestic
6.	If Industrial/ Mixed (Name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
7.	Traceable length (in Km) before meeting Ganga (through Google earth/ map)	:	Approx. 20 KM
8.	Catchment area	:	Subhash Nagar, Kargaina, Kareilly, Veer Bhatti
9.	Co-ordinate of the confluence point (if not reachable indirect though Google earth/ map) (Decimal units)	Latitude	E 079° 25.851'
		Longitude	N 28° 12.310'
	Distance from confluence point (may the find out over Google earth/map), KM	:	Approx. 15 KM
10.	Co-ordinate of the sampling point (decimal units)	Latitude	N 28° 17.690'
		Longitude	E 079° 23.562'
11.	Landmarks/ Address of the location	:	Near Chaubari Village, on Bareilly-Budaun Road
12.	Flow (if in MLD) if Zero indicate whether dry or stagnant	:	18.82
13.	Characteristics	Colour	-
		pH	7.31
		BOD (mg/l)	25.8
		COD (mg/l)	72.5
		TSS	17.3
		TDS	710
		PO ₄ ³⁻	2.94
		Cl-	43.7
		NH ₃ -N	21
	NO ₃ -	:	0.2
	DO (For Fresh water carrying drains/rivers)	:	-
	For sewage, TC (MPN/100ml)	:	490000

	mixed Drains & River	FC (MPN/100ml)		490000
15.	Photographs with captions- Sampling & Confluence point (Add date & Time stamping in camera)			
				
Chawari (Chaubari) drain meeting R. Ramganga on its left bank at Gomidpur Village.				
				
Sampling location of Chawari (Chaubari) drain at Chaubari Village.				
16.	Observations	:	The drain originates from the Southern part of Bareilly city and meets R. Ramganga on its left bank approx. 15 KM away from Bareilly city at Gomidpur Village.	
17.	Name of all monitoring officers along with designation	:	1. Sh. Ram Balak Singh, Scientist C, CPCB, ZO(N)	

			2. Dr. Sanjay Kumar Singh, RA-I, CPCB, ZO(N) 3. Dr. Anant Dubey, ASO, UPPCB, RO, Bareilly 4. Sh. Mohit Rai, AE, UP Jal Nigam, Bareilly
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DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: BDL
5.	Iron (Fe) mg/l	: 1.21
6.	Lead (Pb) mg/l	: 0.062
7.	Manganese (Mn) mg/l	: 0.162
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: BDL
10.	Zinc (Zn) mg/l	: BDL
11.	Antimony (Sb) mg/l	: BDL
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

DRAIN MONITORING FORMAT
(Pesticide)
(Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	-
	Pesticide Analysis Report (OPPs)	
2.	Monochrotophos (µg/l)	N.D
3.	Dimethoate (µg/l)	N.D
4.	Methyl Parathion (µg/l)	N.D
5.	Malathion (µg/l)	N.D
6.	Chloropyriphos (µg/l)	N.D
7.	Ethion (µg/l)	N.D
	Pesticide Analysis Report (OCPs)	
8.	α-BHC (µg/l)	N.D
9.	β-BHC (µg/l)	N.D
10.	γ-BHC (µg/l)	0.10
11.	δ-BHC (µg/l)	N.D
12.	Total BHC (µg/l)	N.D
13.	Aldrin (µg/l)	N.D
14.	Diedrin (µg/l)	N.D
15.	α-Endosulfan (µg/l)	N.D
16.	Total Endosulfan (µg/l)	N.D
17.	β-Endosulfan (µg/l)	N.D
18.	OP'DDT (µg/l)	N.D
19.	PP'DDT (µg/l)	N.D
20.	PP'DDE (µg/l)	N.D
21.	Total DDT (µg/l)	N.D

N.D Not Detected

**DRAIN MONITORING FORMAT
(Ramganga)**

Date & Time of sampling: 02.11.2016&1:00pm

1.	Name of Drain		:	Nakatiya Drain
2.	Confluence with R. Ramganga		:	Left bank
3.	Name of the Regional Office of SPCB		:	Regional Office, UPPCB, Bareilly
4.	Source of Pollution Load		:	Mixed
5.	If Industrial/ Mixed (Name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB		:	Sector Paper Slaughter House
6.	Traceable length (in Km) before meeting Ganga (through Google earth/ map)		:	100 KM
7.	Catchment area		:	Mahanagar, HaruNagla, Rohilkhand University, DhaureraMaffi, Air Force Campus, Sun Rise Colony, Super City Colony, Ashish Royal Park, Sindhu Nagar, Sadar Colony, Tulsi Nagar, Bhartaul, Haziya Nagar
8.	Co-ordinate of the confluence point (if not reachable indirect though Google earth/ map) (Decimal units)	Latitude	:	E 079°29.081'
		Longitude	:	N 28°08.166'
	Distance from confluence point (may the find out over Google earth/map), KM		:	25 KM
9.	Co-ordinate of the sampling point (decimal units)	Latitude	:	E 079°26.176'
		Longitude	:	N 28°15.026'
10.	Landmarks/ Address of the location		:	ManpurChikatia, Bareilly
11.	Flow (if in MLD) if Zero indicate whether dry or stagnant		:	170 MLD
12.	DO (For Fresh water carrying drains/rivers)		:	--
13.	For sewage, mixed Drains & River	TC (MPN/100ml)	:	17,000,00
		FC (MPN/100ml)	:	17,000,00
14.	Photographs with captions- Sampling & Confluence point (Add date & Time stamping in camera)			



Nakatiya drain meeting R. Ramganga on its left bank at Khallpur (AhirGautia) Village.



Sampling location of Nakatiya drain at Manpur Chikatia Village.

15.	Observations	:	The drain touches the Bareilly city on its Eastern boundry and meets R. Ramganga on its left bank approx. 25 KM away from Bareily cityKhallpur (AhirGautia) Village.
17.	Name of all monitoring officers along with designation	:	<ol style="list-style-type: none"> 1. Sh. Ram Balak Singh, Scientist C, CPCB, ZO(N) 2. Dr. Sanjay Kumar Singh, RA-I, CPCB, ZO(N) 3. Dr. Anant Dubey, ASO, UPPCB, RO, Bareily 4. Sh. Mohit Rai, AE, UP Jal Nigam, Bareily

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: BDL
5.	Iron (Fe) mg/l	: 2.32
6.	Lead (Pb) mg/l	: BDL
7.	Manganese (Mn) mg/l	: 0.170
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: BDL
10.	Zinc (Zn) mg/l	: 0.227
11.	Antimony (Sb) mg/l	: BDL
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	-
	Pesticide Analysis Report (OPPs)	
2.	Monochrotophos (µg/l)	N.D
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
8.	α-BHC (µg/l)	N.D
9.	β-BHC (µg/l)	
10.	γ-BHC (µg/l)	
11.	δ-BHC (µg/l)	
12.	Total BHC (µg/l)	
13.	Aldrin (µg/l)	
14.	Diedrin (µg/l)	
15.	α-Endosulfan (µg/l)	
16.	Total Endosulfan (µg/l)	
17.	β-Endosulfan (µg/l)	
18.	OP'DDT (µg/l)	
19.	PP'DDT (µg/l)	
20.	PP'DDE (µg/l)	
21.	Total DDT (µg/l)	

N.D Not detected

V. Data Sheet of Drains Joining River Kali East.

**DRAIN MONITORING FORMAT
(Kali East)**

Date & Time of sampling: 03-11-2016 at 14:50 hrs.

1.	Name of the Drain	:	Abunallah 1 (Kaily Drain)
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Kali East at Right bank
3.	Name of the Regional Office of SPCB	:	Meerut/UPPCB
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed	:	Sector - Textile
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	-
7.	Catchment area		Pallvpuram, Sakauti, Cantonment area, Ganganagar areas of Meerut City.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 57'47.8001 N
		Longitude	: 77 ⁰ 45'51.3061 E
	Distance from confluence point (may the find out over google earth/map), KM		1km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 58'3.7577 N
		Longitude	: 77 ⁰ 44'55.9625 E
10.	Landmarks / Address of the Location		Opposite Ashoka Handloom, Meerut Bypass, Meerut
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	59.92
12.	Observations	:	Solid waste dumping has been observed on the side of the drain nearby the MSW dumping site on a 2-3 km stretch.
13.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. 'C', CPCB 2. Ms. Garima Dublish, RA-I, CPCB 3. Mr. Munna Singh, Ex En, UP Jal Nigam 4. Mr. Ankit Singh, AEE, RO, UPPCB Meerut 5. Mr. Shravan Kota, Research Officer, NMCG

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.7
3.	BOD (mg/l)	55
4.	COD (mg/l)	163
5.	TSS (mg/l)	83
6.	TDS (mg/l)	732
7.	Cl ⁻ (mg/l)	146
8.	NH ₃ -N (mg/l)	55
9.	NO ₃ ⁻ (mg/l)	3.06
10.	DO (mg/l)*	NA
11.	TC (MPN/ 100 ml)#	17x10 ⁶
12.	FC (MPN/ 100 ml)#	70x10 ⁵

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

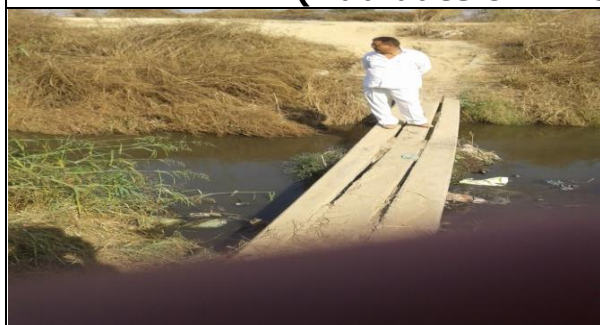
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.01
5.	Iron (Fe) mg/l	2.1
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.15
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	NA
10.	Zinc (Zn) mg/l	0.11
11.	Antimony (Sb) mg/l	NA
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: BDL
10.	β-BHC	: 0.13
11.	γ-BHC	: BDL
12.	δ-BHC	: BDL
13.	Total BHC (ng/l)	: 0.13
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: BDL
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling Point of Abu Nalla-1



Confluence point of Abu Nalla-1 Drain & Kali East River

**DRAIN MONITORING FORMAT
(Kali East)**

Date & Time of sampling: 03-11-2016 at 13:12 hrs.

1.	Name of the Drain	:	Abu Nalla -2
2.	Meeting Kali East at -	:	Kali East at Right bank
3.	Name of the Regional Office of SPCB	:	Meerut/UPPCB
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Sector)	:	Brewery
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	
7.	Catchment area		Meerut City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 54'58.3291" N
		Longitude	77 ⁰ 44'38.2469" E
	Distance from confluence point (may the find out over google earth/map), KM		1 km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 56'19.56" N
		Longitude	77 ⁰ 45'12.94" E
10.	Landmarks / Address of the Location		On outer ring road near upcoming 72 mld STP, Meerut
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	243.64
12.	Observations	:	Confluence point was traced at a distance of about 1.5 km through shrubs and hick vegetation area.
13.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. 'C', CPCB 2. Ms. Garima Dublish, RA-I, CPCB 3. Mr. Munna Singh, Ex En, UP Jal Nigam 4. Mr. Ankit Singh, AEE, RO, UPPCB Meerut 5. Mr. Shravan Kota, Research Officer, NMCG

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.4
3.	BOD (mg/l)	51
4.	COD (mg/l)	332
5.	TSS (mg/l)	192
6.	TDS (mg/l)	624
7.	Cl ⁻ (mg/l)	75
8.	NH ₃ -N (mg/l)	26
9.	NO ₃ ⁻ (mg/l)	4.7
10.	DO (mg/l)*	NA
11.	TC (MPN/ 100 ml)#	70x10 ⁶
12.	FC (MPN/ 100 ml)#	46x10 ⁶

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.03
5.	Iron (Fe) mg/l	1.8 1.76
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.17
8.	Nickel (Ni) mg/l	0.02
9.	Mercury (Hg) mg/l	NA
10.	Zinc (Zn) mg/l	0.15
11.	Antimony (Sb) mg/l	NA
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: BDL
10.	β-BHC	: 0.052
11.	γ-BHC	: BDL
12.	δ-BHC	: BDL
13.	Total BHC (ng/l)	: 0.369
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: 0.177
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: 0.177

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Confluence point of Abu Nalla-2 Drain and Kali East River



Water withdrawn for irrigation from Abu Nalla-2

**DRAIN MONITORING FORMAT
(Kali East)**

Date & Time of sampling: 03-11-2016 at 12:00 hrs.

1.	Name of the Drain	:	Odean Nallah (Slaughter House Drain)
2.	Meeting Kali East at -	:	Kali East at Right bank
3.	Name of the Regional Office of SPCB	:	Meerut/UPPCB
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed	:	Illegal Slaughtering
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	-
7.	Catchment area		Meerut city
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28 ⁰ 55'35.35" N
		Longitude	: 77 ⁰ 45'23.00" E
	Distance from confluence point (may the find out over google earth/map), KM		1.5 km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28 ⁰ 55'56.8861" N
		Longitude	: 77 ⁰ 44'59.4781" E
10.	Landmarks / Address of the Location		
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	174.95
12.	Observations	:	Adjacent farmlands are being irrigated by the drain water.
13.	Name of all monitoring officers along with Designation		1. Dr. Sarvesh Rai, Sc. 'C', CPCB 2. Ms. Garima Dublish, RA-I, CPCB 3. Mr. Munna Singh, Ex En, UP Jal Nigam 4. Mr. Ankit Singh, AEE, RO, UPPCB Meerut 5. Mr. Shravan Kota, Research Officer, NMCG

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.3
3.	BOD (mg/l)	182
4.	COD (mg/l)	763
5.	TSS (mg/l)	565
6.	TDS (mg/l)	864
7.	Cl ⁻ (mg/l)	178
8.	NH ₃ -N (mg/l)	47
9.	NO ₃ ⁻ (mg/l)	10.29
10.	DO (mg/l)*	NA
11.	TC (MPN/ 100 ml)#	35x10 ⁶
12.	FC (MPN/ 100 ml)#	24x10 ⁵

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	0.05
3.	Total Chromium (Cr) mg/l	0.1 0.07
4.	Copper (Cu) mg/l	0.11
5.	Iron (Fe) mg/l	5 4.95
6.	Lead (Pb) mg/l	0.03
7.	Manganese (Mn) mg/l	0.36
8.	Nickel (Ni) mg/l	0.07
9.	Mercury (Hg) mg/l	NA
10.	Zinc (Zn) mg/l	0.41
11.	Antimony (Sb) mg/l	NA
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: BDL
10.	β-BHC	: 0.894
11.	γ-BHC	: BDL
12.	δ-BHC	: BDL
13.	Total BHC (ng/l)	: 0.894
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: 0.261
20.	PP'DDT	: BDL
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: 0.261

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point of Odean Drain



Confluence point of Odean Drain & Kali East River

**DRAIN MONITORING FORMAT
(Kali-East)**

Date & Time of sampling: 04.11.2016 (20.00hrs)

1.	Name of the Drain	:	Chhoiya Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Drain meets Kali-east at left bank
3.	Name of the Regional Office of SPCB	:	SPCB, Ghaziabad
4.	Source of pollution load:	:	(Domestic/Industrial/Mixed)- Mixed
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB		Mixed
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	-
7.	Catchment area		Merrut and Mawana
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	-
		Longitude	-
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 8 km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	28 ^o 38'56.6"N
		Longitude	079 ^o 01'06.9" E
10.	Landmarks / Address of the Location		Bachrauta village, near Babugarh cant. In Ghaziabad district
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	Could not be measured
12.	Observations	:	Due to darkness (8 PM) and non-feasibility of the site, flow could not be measured.
13.	Urgent action required, if any	:	---
14.	Name of all monitoring officers along with Designation		1. Dr. Brajesh Shrivastava 2. Shri Neeraj Gahlawat, P.O., NMCG 3. Shri Ajay Sharma, MTS, CPCB

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.92
3.	BOD (mg/l)	18
4.	COD (mg/l)	124
5.	TSS (mg/l)	39
6.	TDS (mg/l)	908
7.	Cl ⁻ (mg/l)	119
8.	NH ₃ -N (mg/l)	14
9.	NO ₃ ⁻ (mg/l)	5.84
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	79x10 ²
12.	FC (MPN/ 100 ml)#	49x10 ²

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	1.2
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.21
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.05
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

DRAIN MONITORING FORMAT

(Pesticide)

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
8.	α-HCH	BDL
9.	β-HCH	0.144
10.	γ-HCH	BDL
11.	δ-BHC	-
12.	Total BHC (ng/l)	-
13.	Aldrin (ng/l)	BDL
14.	Diedrin (ng/l)	BDL
15.	α-Endosulfan	BDL
16.	Total Endosulfan (ng/l)	-
17.	β-Endosulfan	BDL
18.	OP'DDT	BDL
19.	PP'DDT	0.080
20.	PP'DDE	BDL
21.	Total DDT (ng/l)	-

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**

Photographs are not clear due to darkness (It was around 8 PM when the visit was conducted)

**DRAIN MONITORING FORMAT
(Kali-East)**

Date & Time of sampling: 02.11.2016, 1:30pm

1.	Name of the Drain	:	Hapur Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Ghaziabad
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Please indicate type of sector)	:	<ul style="list-style-type: none"> • Textile • Dyeing • Others
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	15 KM (approx.)
7.	Catchment area		Hapur
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.6381
		Longitude	77.81475
	Distance from confluence point (may the find out over google earth/map), KM		6 Km (approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 77.785
		Longitude	28.684
10.	Landmarks / Address of the Location		Near Road Bridge, Akhroli Vill., Gulauti Road
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	28.11
12.	Observations	:	Turbid. Ichornia growth found. Solid wastes were found floating with drain.
13.	Urgent action required, if any	:	Solid wastes floating with the drain should be stopped immediately.
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Sh. C.B. Chaurasia, Sc E, CPCB 2. Dr. Sananda Sinha, RA, CPCB 3. Mrs. Shraddha Lonarkar, RA, CPCB 4. Mr. NeerajGahlaut, Project Officer, NMCG 5. Mr. Mahendra Singh, AE, UPJN 6. Mr. Rajkumar Sharma, J.E, UPJN 7. Mr. Dhruv, LA, UPPCB, Ghaziabad

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: NA
2.	pH	: 7.52
3.	BOD (mg/l)	: 140
4.	COD (mg/l)	: 300
5.	TSS (mg/l)	: 230
6.	TDS (mg/l)	: 976
7.	Cl ⁻ (mg/l)	: 260
8.	NH ₃ -N (mg/l)	: 38
9.	NO ₃ ⁻ (mg/l)	: 3.91
10.	DO (mg/l)*	: NIL
11.	TC (MPN/ 100 ml)#	: 17x10 ⁵
12.	FC (MPN/ 100 ml)#	: 17x10 ⁵

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: 0.01
4.	Copper (Cu) mg/l	: 0.04
5.	Iron (Fe) mg/l	: 2.94
6.	Lead (Pb) mg/l	: 0.02
7.	Manganese (Mn) mg/l	: 0.24
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: NA
10.	Zinc (Zn) mg/l	: 0.10
11.	Antimony (Sb) mg/l	: NA
12.	Cobalt (Co) mg/l	: BDL BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	: -
3.	Dimethoate (µg/l)	: BDL
4.	Methyl Parathion (µg/l)	: BDL
5.	Malathion (µg/l)	: BDL
6.	Chloropyriphos (µg/l)	: BDL
7.	Methyl Parathion	: BDL
8.	Ethion (µg/l)	: BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	: BDL
10.	β-BHC	: 0.369(µg/L)
11.	γ-BHC	: BDL
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: 0.369(µg/L)
14.	Aldrin (ng/l)	: BDL
15.	Diedrin (ng/l)	: BDL
16.	α-Endosulfan	: BDL
17.	Total Endosulfan (ng/l)	: BDL
18.	β-Endosulfan	: BDL
19.	OP'DDT	: BDL
20.	PP'DDT	: 0.241(µg/L)
21.	PP'DDE	: BDL
22.	Total DDT (ng/l)	: 0.241(µg/L)

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Drain View



Sampling Location

***confluence was non approachable due to heavy growth of grasses**

**DRAIN MONITORING FORMAT
(Kali -East)**

Date & Time of sampling: 02.11.2016, 11:20 am

1.	Name of the Drain	:	Hapur Drain-1 (City Drain)
2.	Meeting Kali-east at -	:	Right bank – Kali-East
3.	Name of the Regional Office of SPCB	:	Ghaziabad
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Please indicate type of sector)	:	<ul style="list-style-type: none"> • Textile • Dyeing • Others
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	4 KM (approx.)
7.	Catchment area		Hapur
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	77.830
		Longitude	28.726
	Distance from confluence point (may the find out over google earth/map), KM		100 meter before the confluence
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	77.830
		Longitude	28.726
10.	Landmarks / Address of the Location		At road bridge near PWD Office Babugarh vill. , Hapur
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	4.60
12.	Observations	:	4. Turbid. 5. Ichornia growth found. 6. Solid wastes were found floating with drain.
13.	Urgent action required, if any	:	Solid wastes floating with the drain should be stopped immediately.
14.	Name of all monitoring officers along with Designation		1. Sh. C.B. Chaurasia, Sc. E, CPCB 2. Dr. Sananda Sinha, RA, CPCB 3. Mrs. Shraddha Lonarkar, RA, CPCB 4. Mr. Neeraj Gahlaut, Project Officer, NMCG 5. Mr. Mahendra Singh, AE, UPJN 6. Mr. Rajkumar Sharma, J.E, UPJN 7. Mr. Dhruv, LA, UPPCB, Ghaziabad

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: NA
2.	pH	: 7.78
3.	BOD (mg/l)	: 41
4.	COD (mg/l)	: 114
5.	TSS (mg/l)	: 41
6.	TDS (mg/l)	: 784
7.	Cl ⁻ (mg/l)	: 192
8.	NH ₃ -N (mg/l)	: 43
9.	NO ₃ ⁻ (mg/l)	: 3.85
10.	DO (mg/l)*	: NIL
11.	TC (MPN/ 100 ml)#	: 13x10 ⁸
12.	FC (MPN/ 100 ml)#	: 79x10 ⁷

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: 0.02
4.	Copper (Cu) mg/l	: BDL
5.	Iron (Fe) mg/l	: 0.66
6.	Lead (Pb) mg/l	: BDL
7.	Manganese (Mn) mg/l	: 0.31
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: NA
10.	Zinc (Zn) mg/l	: 0.02
11.	Antimony (Sb) mg/l	: NA
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
		-
3.	Dimethoate (µg/l)	:
		BDL
4.	Methyl Parathion (µg/l)	:
		BDL
5.	Malathion (µg/l)	:
		BDL
6.	Chloropyriphos (µg/l)	:
		BDL
7.	Methyl Parathion	:
		BDL
8.	Ethion (µg/l)	:
		BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
		BDL
10.	β-BHC	:
		0.136(µg/l)
11.	γ-BHC	:
		BDL
12.	δ-BHC	:
		-
13.	Total BHC (ng/l)	:
		0.136(µg/l)
14.	Aldrin (ng/l)	:
		BDL
15.	Diedrin (ng/l)	:
		BDL
16.	α-Endosulfan	:
		BDL
17.	Total Endosulfan (ng/l)	:
		BDL
18.	β-Endosulfan	:
		BDL
19.	OP'DDT	:
		BDL
20.	PP'DDT	:
		0.156(µg/l)
21.	PP'DDE	:
		BDL
22.	Total DDT (ng/l)	:
		0.156(µg/l)

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**

	
Sampling location	Confluence with Kali -east

**DRAIN MONITORING FORMAT
(Kali -East)**

Date & Time of sampling: 20.10.2016, 1:00 PM

1.	Name of the Drain	:	Kadarabad Drain
2.	Meeting Kali-east at -	:	Right bank - Kali-East
3.	Name of the Regional Office of SPCB	:	Ghaziabad
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Please indicate type of sector)	:	Dyeing & Textile
6.	Traceable length of drain (in Km) before meeting Ganga (through google earth/map)	:	Approx. 35 km
7.	Catchment area		Modinagar and Meerut
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.63105
		Longitude	77.8124
	Distance from confluence point (may the find out over google earth/map), KM		1 km before confluence with river Kali-East
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.6353
		Longitude	77.80482
10.	Landmarks / Address of the Location		After D/s of village Hirdaypur
11.	Flow in MLD, if zero indicate whether dry or stagnant	:	48.56 MLD
12.	Observations	:	
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Sh. C.B. Chourasia, Sc 'E', NGRBA Cell, CPCB 2. Dr. Hema Patel, NGRBA Cell, RA-I NGRBA Cell, CPCB 3. Sh. Sushil Kumar, SA, RO Ghaziabad, UPPCB 4. Sh. Dhruv, Lab Assistant, RO, Ghaziabad, UPPCB

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	8.08
3.	BOD (mg/l)	73
4.	COD (mg/l)	154
5.	TSS (mg/l)	40
6.	TDS (mg/l)	964
7.	Cl ⁻ (mg/l)	148
8.	NH ₃ -N (mg/l)	18
9.	NO ₃ ⁻ (mg/l)	3.58
10.	DO (mg/l)*	NA
11.	TC (MPN/ 100 ml)#	49x10 ⁵
12.	FC (MPN/ 100 ml)#	33x10 ⁵

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.02
5.	Iron (Fe) mg/l	0.55
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.27
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.03
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	:
10.	β-BHC	:
11.	γ-BHC	:
12.	δ-BHC	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point of Kadarabad drain



Kadarabad drain before meeting with river Kali-East, confluence point was not approachable

**DRAIN MONITORING FORMAT
(Kali East)**

Date & Time of sampling: 02.11.2016, 4:30 pm

1.	Name of the Drain	:	Gulaothi Drain
2.	Meeting Ganga/Ramganga/Kali-east at -	:	Right bank
3.	Name of the Regional Office of SPCB	:	Bulandshahar
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Please indicate type of sector)	:	Textile, Food & Dairy, Others
6.	Traceable length (in Km) of drain before meeting Ganga (through google earth/map)	:	5 KM (approx.)
7.	Catchment area		Gulaothi
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 77.819E
		Longitude	: 28.599N
	Distance from confluence point (may the find out over google earth/map), KM		100 M (approx.)
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 77.814
		Longitude	: 28.597
10.	Landmarks / Address of the Location		Near Saidpur village, Gulaothi, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	6.89
12.	Observations	:	7. Turbid. 8. Ichornia growth found. 9. Solid wastes were found floating with drain.
13.	Name of all monitoring officers along with Designation		1. Sh. C.B. Chaurasia, Sc. E, CPCB 2. Dr. Sananda Sinha, RA, CPCB 3. Mrs. Shraddha Lonarkar, RA, CPCB 4. Mr. Neeraj Gahlaut, Project Officer, NMCG 5. Mr. K.M. Yadav, E.E, UPJN, GZB. Mr. Sudhir Kumar, AE, UPJN, GZB. 6. Mr. Dhruv, LA, UPPCB, Ghaziabad

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: NA
2.	pH	: 7.51
3.	BOD (mg/l)	: 139
4.	COD (mg/l)	: 282
5.	TSS (mg/l)	: 196
6.	TDS (mg/l)	: 860
7.	Cl ⁻ (mg/l)	: 130
8.	NH ₃ -N (mg/l)	: 38
9.	NO ₃ ⁻ (mg/l)	: 3.64
10.	DO (mg/l)*	: NIL
11.	TC (MPN/ 100 ml)#	: 22X10 ⁶
12.	FC (MPN/ 100 ml)#	: 22X10 ⁶

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: BDL
2.	Cadmium (Cd) mg/l	: BDL
3.	Total Chromium (Cr) mg/l	: BDL
4.	Copper (Cu) mg/l	: 0.02
5.	Iron (Fe) mg/l	: 2.33
6.	Lead (Pb) mg/l	: 0.02
7.	Manganese (Mn) mg/l	: 0.22
8.	Nickel (Ni) mg/l	: BDL
9.	Mercury (Hg) mg/l	: NA
10.	Zinc (Zn) mg/l	: 0.09
11.	Antimony (Sb) mg/l	: NA
12.	Cobalt (Co) mg/l	: BDL
13.	Selenium (Se) mg/l	: BDL
14.	Vanadium (V) mg/l	: BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	-
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	BDL
10.	β-BHC	0.874 (µg/L)
11.	γ-BHC	BDL
12.	δ-BHC	-
13.	Total BHC (ng/l)	0.874 (µg/L)
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.106 (µg/L)
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	0.106 (µg/L)

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point, confluence point was not reachable



Inspection team

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 04.11.2016 (11am)

1.	Name of the Drain	:	Maman Road Nala D1 (Bulandshahr -I)
2.	Meeting River Kali-east at -	:	Right bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.3 km
7.	Catchment area	:	Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.392528
		Longitude	: 77.863803
	Distance from confluence point (may the find out over google earth/map), KM	:	500 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.392942
		Longitude	: 77.860909
10.	Landmarks / Address of the Location	:	Mohankutir , Bulandshahr, UP
11.	Flow in MLD, if zero indicate whether dry or stagnant	:	146.79
12.	Observations	:	1. Colour of water the drain is blackish 2. Drain at left bank of kali-east. 3. 2/3 part of the drain made of concrete part.
13.	Name of all monitoring officers along with Designation	:	1. Dr Pankaj Kumar Sci"D", CPCB 2. Dr Manoj Kumar, R.A-I, CPCB 3. Sh. Amit Kumar, PO , NMCG 4. Sh. Gitesh Chandra, ASO, UPPCB 5. Sh Maninder Singh, AE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.56
3.	BOD (mg/l)	103
4.	COD (mg/l)	222
5.	TSS (mg/l)	231
6.	TDS (mg/l)	782
7.	Cl ⁻ (mg/l)	67
8.	NH ₃ -N (mg/l)	38
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

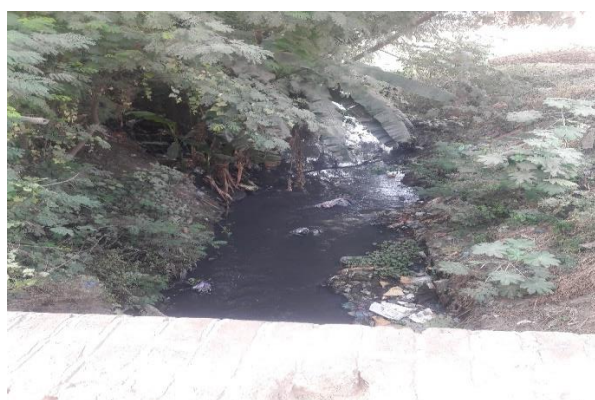
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.06
5.	Iron (Fe) mg/l	4.58
6.	Lead (Pb) mg/l	0.03
7.	Manganese (Mn) mg/l	0.27
8.	Nickel (Ni) mg/l	0.13
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.19
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.01

DRAIN MONITORING FORMAT (Pesticide)

Sl. No.	Parameters	Results	
1.	Water temperature (°C)	:	
Pesticide Analysis Report (OPPs)		:	
2.	Monochrotophos	:	BDL
3.	Dimethoate (µg/l)	:	BDL
4.	Methyl Parathion (µg/l)	:	BDL
5.	Malathion (µg/l)	:	BDL
6.	Chloropyriphos (µg/l)	:	BDL
7.	Methyl Parathion	:	BDL
8.	Ethion (µg/l)	:	BDL
Pesticide Analysis Report (OCPs)		:	
9.	α-HCH	:	BDL
10.	β- HCH	:	0.05
11.	γ-HCH	:	BDL
12.	δ-HCH	:	-
13.	Total BHC (ng/l)	:	-
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL
16.	α-Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	-
18.	β-Endosulfan	:	-
19.	OP'DDT	:	0.062
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)



Sample collecting point in drain



Confluence point in Kali -east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 21.12.2016 (11:00 am)

1.	Name of the Drain	:	Maman Road Nala D1 (Bulandshahr -I) 2nd round
2.	Meeting Kali-east at -	:	Right Bank, Near Mohan Kuteer, Bulandshahr
3.	Name of the Regional Office of SPCB	:	U.P.P.C.B. Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	No
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	500 mtr
7.	Catchment area		Bulandshahr town.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28°23 ^I 33.05 ^{II} N
		Longitude	: 77°51 ^I 49.58 ^{II} E
	Distance from confluence point (may the find out over google earth/map), KM		500 mtr
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°23 ^I 34.94 ^{II} N
		Longitude	: 77°51 ^I 37.95 ^{II} E
10.	Landmarks / Address of the Location		Near Road bridge at Mohan Kuteer, Bulandshahr .
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	86.4 MLD
12.	Observations	:	--
13.	Urgent action required, if any	:	STP required for treatment.
14.	Name of all monitoring officers along with Designation		1. Raj Kumar Sharma, J.E. , 2. U.P.Jal Nigam, Gautam Budh Nagar. 3. S.P.Singh, J.E., 4. U.P. Pollution Control Board, Bulandshahr . 5. Geetesh Chandra, A.S.O., 6. U.P. Pollution Control Board, Bulandshahr.

Samples were not collected by the Joint team

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	Samples were not collected by the Joint team
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers



#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Samples were not collected by the Joint team
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Samples were not collected by the Joint team
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-HCH	Samples were not collected by the Joint team
10.	β- HCH	
11.	γ-HCH	
12.	δ-HCH	
13.	Total BHC (ng/l)	
14.	Aldrin (ng/l)	
15.	Diedrin (ng/l)	
16.	α-Endosulfan	
17.	Total Endosulfan (ng/l)	
18.	β-Endosulfan	
19.	OP'DDT	
20.	PP'DDT	
21.	PP'DDE	
22.	Total DDT (ng/l)	

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)	
	
Confluence point	Sampling Point

**DRAIN MONITORING FORMAT
(Kali East)**

Date & Time of sampling: 04.11.2016 (12:15 pm)

1.	Name of the Drain	:	Aadil Nalla (D2)
2.	Meeting Kali-east at -	:	Right bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.4 km
7.	Catchment area		Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.396283
		Longitude	77.862681
	Distance from confluence point (may the find out over google earth/map), KM		50 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.396283
		Longitude	77.862344
10.	Landmarks / Address of the Location		Aadil Nagar Bulandshahr, UP
11.	Flow in MLD, if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 129.35MLD
12.	Observations	:	1. Drain made of concrete material 2. Water depth in the drain is approx. 3-4 feet.
13.	Name of all monitoring officers along with Designation		1. Dr Pankaj Kumar Sci"D", CPCB 2. Dr Manoj Kumar, R.A-I, CPCB 3. Sh. Amit Kumar, PO , NMCG 4. Sh. Gitesh Chandra, ASO, UPPCB 5. Sh Maninder Singh, AE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.51
3.	BOD (mg/l)	97
4.	COD (mg/l)	213
5.	TSS (mg/l)	219
6.	TDS (mg/l)	708
7.	Cl ⁻ (mg/l)	73
8.	NH ₃ -N (mg/l)	36
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	0.84
6.	Lead (Pb) mg/l	0.01
7.	Manganese (Mn) mg/l	0.08
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.09
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Sample not collected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-HCH	BDL
10.	β- HCH	0.162
11.	γ-HCH	BDL
12.	δ-HCH	-
13.	Total BHC (ng/l)	-
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	-
18.	β-Endosulfan	BDL
19.	OP'DDT	0.079
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sample collecting point in drain



Confluence point in Kali-east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 21.12.2016 (11:45 am)

1.	Name of the Drain	:	Aadil Nagar, drain. 2nd round
2.	Meeting Kali-east at -	:	Right Bank, Aadil Nagar, Bulandshahar
3.	Name of the Regional Office of SPCB	:	U.P.P.C.B. Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	No
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	
7.	Catchment area		Bulandshahr town.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28°23 ^I 45.61 ^{II} N
		Longitude	: 77°51 ^I 46.01 ^{II} E
	Distance from confluence point (may the find out over google earth/map), KM		20 mt.
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°23 ^I 46.67 ^{II} N
		Longitude	: 77°51 ^I 44.49 ^{II} E
10	Landmarks / Address of the Location		Aadil Nagar, Near Shamshan Ghat, Bulandshahar .
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	15.6 MLD
12.	Observations	:	--
13.	Urgent action required, if any	:	STP required for treatment.
14.	Name of all monitoring officers along with Designation		Raj Kumar Sharma, J.E. , U.P.Jal Nigam, Gautam Budh Nagar. S.P.Singh, J.E., U.P. Pollution Control Board, Bulandshahr . Geetesh Chandra, A.S.O., U.P. Pollution Control Board, Bulandshahr.

Samples were not collected by the Joint team

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	Samples were not collected by the Joint team
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Samples were not collected by the Joint team
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	:
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-HCH	:
10.	β- HCH	:
11.	γ-HCH	:
12.	δ-HCH	:
13.	Total BHC (ng/l)	:
14.	Aldrin (ng/l)	:
15.	Diedrin (ng/l)	:
16.	α-Endosulfan	:
17.	Total Endosulfan (ng/l)	:
18.	β-Endosulfan	:
19.	OP'DDT	:
20.	PP'DDT	:
21.	PP'DDE	:
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling Point

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 04.11.2016(2.45pm)

1.	Name of the Drain	:	Chandbari Road (Bulandshahr II) D11
2.	Meeting Kali-east at -	:	Right bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.4-5 km
7.	Catchment area	:	Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.417947
		Longitude	: 77.855664
	Distance from confluence point (may the find out over google earth/map), KM	:	300 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.417007
		Longitude	: 77.85364
10.	Landmarks / Address of the Location	:	Chandwadi devipura near women police station, Bulandshahr, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 107.25 MLD
12.	Observations	:	1. Colour of water the drain is greyis
13.	Name of all monitoring officers along with Designation	:	1. Dr Pankaj Kumar Sci"D", CPCB 2. Dr Manoj Kumar, R.A-I, CPCB 3. Sh. Amit Kumar, PO , NMCG 4. Sh. Gitesh Chandra, ASO, UP PCB 5. Sh Maninder Singh, AE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
13.	Colour	-
14.	pH	7.56
15.	BOD (mg/l)	70
16.	COD (mg/l)	159
17.	TSS (mg/l)	81
18.	TDS (mg/l)	676
19.	Cl ⁻ (mg/l)	61
20.	NH ₃ -N (mg/l)	32
21.	NO ₃ ⁻ (mg/l)	-
22.	DO (mg/l)*	-
23.	TC (MPN/ 100 ml)#	-
24.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.04
4.	Copper (Cu) mg/l	0.12
5.	Iron (Fe) mg/l	10.08
6.	Lead (Pb) mg/l	0.04
7.	Manganese (Mn) mg/l	0.33
8.	Nickel (Ni) mg/l	0.06
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.26
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.02

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
23.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
24.	Monochrotophos	Sample not collected
25.	Dimethoate (µg/l)	
26.	Methyl Parathion (µg/l)	
27.	Malathion (µg/l)	
28.	Chloropyriphos (µg/l)	
29.	Methyl Parathion	
30.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	:
31.	α-HCH	BDL
32.	β- HCH	0.182
33.	γ-HCH	0.259
34.	δ-HCH	-
35.	Total BHC (ng/l)	-
36.	Aldrin (ng/l)	BDL
37.	Diedrin (ng/l)	BDL
38.	α-Endosulfan	BDL
39.	Total Endosulfan (ng/l)	-
40.	β-Endosulfan	BDL
41.	OP'DDT	0.174
42.	PP'DDT	BDL
43.	PP'DDE	BDL
44.	Total DDT (ng/l)	-

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sample collecting point in drain



Confluence point in Kali east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 21.12.2016 (12:15 pm & 2:36 p.m.)

7.	Name of the Drain	:	Chandbari Road (Bulandshahr II) D11 2nd Monitoring
8.	Meeting Kali-east at -	:	Right Bank, Chandbari Road
9.	Name of the Regional Office of SPCB	:	U.P.P.C.B. Bulandshahr
10	Source of pollution load:	:	Domestic
11	If Industrial /Mixed (Please indicated industrial sector)	:	No
12	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	200 mt.
13	Catchment area		Bulandshahr town.
14	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28°25'04.77 ^{II} N
		Longitude	: 77°51'20.14 ^{II} E
	Distance from confluence point (may the find out over google earth/map), KM		200 mt.
15	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28°25'01.59 ^{II} N
		Longitude	: 77°51'12.59 ^{II} E
16	Landmarks / Address of the Location		Chandbari Road, Near Mahila Police Station.
17	Flow (if in MLD) if zero indicate whether dry or stagnant	:	91 MLD at 12:15 p.m. 38.7 MLD at 2:36 p.m.
18	Observations	:	--
19	Urgent action required, if any	:	STP required for treatment.
20	Name of all monitoring officers along with Designation		Raj Kumar Sharma, J.E. , U.P.Jal Nigam, Gautam Budh Nagar. S.P.Singh, J.E., U.P. Pollution Control Board, Bulandshahr . Geetesh Chandra, A.S.O., U.P. Pollution Control Board, Bulandshahr.

Samples were not collected by the Joint team

(General parameters)

Sl. No.	Parameters	Results
1.	Colour	: Samples were not collected by the Joint team
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT

(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	: Samples were not collected by the Joint team
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	Samples were not collected by the Joint team
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-HCH	Samples were not collected by the Joint team
10.	β- HCH	
11.	γ-HCH	
12.	δ-HCH	
13.	Total BHC (ng/l)	
14.	Aldrin (ng/l)	
15.	Diedrin (ng/l)	
16.	α-Endosulfan	
17.	Total Endosulfan (ng/l)	
18.	β-Endosulfan	
19.	OP'DDT	
20.	PP'DDT	
21.	PP'DDE	
22.	Total DDT (ng/l)	

**Photograph with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling Point

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (3:08pm)

1.	Name of the Drain	:	Cheel ghat (D3)
2.	Meeting Kali-east at -	:	Left bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Auto mobile washing , Mixed
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.2 km
7.	Catchment area		Left bank Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.4009090, 77.8662330
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM		50 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.4009090, 77.8662330
		Longitude	
10.	Landmarks / Address of the Location		Pedestrian Bridge, Bulandshahr, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.22
12.	Observations	:	1. On the left and side of the river 2. Oil and grease comes from automobile shops. 3. Domestic waste mixed with automobile shops with waste water.
13.	Urgent action required, if any	:	
14.	Name of all monitoring officers along with Designation		1. Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dublish, R.A-I, CPCB 5. Sh. Gitesh Chandra, ASO, UP PCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.48
3.	BOD (mg/l)	49
4.	COD (mg/l)	162
5.	TSS (mg/l)	81
6.	TDS (mg/l)	896
7.	Cl ⁻ (mg/l)	124
8.	NH ₃ -N (mg/l)	25
9.	NO ₃ ⁻ (mg/l)	5.65
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	35x10 ⁶
12.	FC (MPN/ 100 ml)#	35x10 ⁶

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.02
5.	Iron (Fe) mg/l	1.78
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.16
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.08
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	BDL
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	BDL
10.	β- HCH	BDL
11.	γ-HCH	BDL
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photograph with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sample collecting & Confluence point in kali -east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (11:42am)

1.	Name of the Drain	:	Nahsal Ghat (D4)
2.	Meeting Kali-east at -	:	Right bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.150m
7.	Catchment area		Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.4046940,
		Longitude	77.8677690
	Distance from confluence point (may the find out over google earth/map), KM		80 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.4046580,
		Longitude	77.8663720
10.	Landmarks / Address of the Location		Narsal Ghat Police Check Post, Bulandshahr, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.87
12.	Observations	:	Sample collected.
13.	Urgent action required, if any	:	
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dublish, R.A-I, CPCB 5. Sh. Gitesh Chandra, ASO, UPPCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.52
3.	BOD (mg/l)	336
4.	COD (mg/l)	808
5.	TSS (mg/l)	632
6.	TDS (mg/l)	1428
7.	Cl ⁻ (mg/l)	192
8.	NH ₃ -N (mg/l)	31
9.	NO ₃ ⁻ (mg/l)	9.62
10.	PO ₄ -p	2.96
11.	DO (mg/l)*	-
12.	TC (MPN/ 100 ml)#	16x10 ⁷
13.	FC (MPN/ 100 ml)#	16x10 ⁷

*For Fresh water carrying drains/ rivers



#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.05
5.	Iron (Fe) mg/l	3.08
6.	Lead (Pb) mg/l	0.02
7.	Manganese (Mn) mg/l	0.41
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.23
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.01

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	BDL
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	BDL
10.	β- HCH	BDL
11.	γ-HCH	BDL
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

Photographs with captions – Sampling & Confluence point (Add date & Time stamping in camera)	
	
Sample collecting point in drain	Confluence point in kali -east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (2:38pm)

14.	Name of the Drain	:	Adil Nagar 2 (D5)
15.	Meeting Kali-east at -	:	Right bank at Kali-east
16.	Name of the Regional Office of SPCB	:	Bulandshahr
17.	Source of pollution load:	:	Domestic
18.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
19.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.200m
20.	Catchment area		Bulandshahr
21.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.4066930,
		Longitude	77.8637600
	Distance from confluence point (may the find out over google earth/map), KM		25 meter
22.	Co-ordinate of the sampling point (Decimal units)	Latitude	: -
		Longitude	
23.	Landmarks / Address of the Location		-
24.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	-
25.	Observations	:	DRY
26.	Urgent action required, if any	:	
27.	Name of all monitoring officers along with Designation		1.Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dublish, R.A- I, CPCB 5. Sh. Gitesh Chandra, ASO, UPPCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	Dry
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Dry
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	Dry
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-HCH	Dry
10.	β- HCH	
11.	γ-HCH	
12.	δ-HCH	
13.	Total BHC (ng/l)	
14.	Aldrin (ng/l)	
15.	Diedrin (ng/l)	
16.	α-Endosulfan	
17.	Total Endosulfan (ng/l)	
18.	β-Endosulfan	
19.	OP'DDT	
20.	PP'DDT	
21.	PP'DDE	
22.	Total DDT (ng/l)	

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Dry Drain

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (12:01pm)

1.	Name of the Drain	:	Kasai Bada (D6)
2.	Meeting Kali-east at -	:	Right bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.1.5 km
7.	Catchment area		Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.4075410, 77.8630860
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM		-
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.4075410, 77.8630860
		Longitude	
10.	Landmarks / Address of the Location		Near Haji Ali M.L.A house, Bulandshahr, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	7.3
12.	Observations	:	Sample collected.
13.	Urgent action required, if any	:	
14.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dublish, R.A-I, CPCB 5. Sh. Gitesh Chandra, ASO, UPPCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.56
3.	BOD (mg/l)	103
4.	COD (mg/l)	222
5.	TSS (mg/l)	231
6.	TDS (mg/l)	728
7.	Cl ⁻ (mg/l)	67
8.	NH ₃ -N (mg/l)	38
9.	NO ₃ ⁻ (mg/l)	3.72
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	92x10 ⁷
12.	FC (MPN/ 100 ml)#	35x10 ⁷

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.01
4.	Copper (Cu) mg/l	0.15
5.	Iron (Fe) mg/l	4.84
6.	Lead (Pb) mg/l	0.13
7.	Manganese (Mn) mg/l	0.39
8.	Nickel (Ni) mg/l	0.02
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.23
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.01

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters		Results
1.	Water temperature (°C)	:	
Pesticide Analysis Report (OPPs)		:	
2.	Monochrotophos	:	Sample Not Collected
3.	Dimethoate (µg/l)	:	
4.	Methyl Parathion (µg/l)	:	
5.	Malathion (µg/l)	:	
6.	Chloropyriphos (µg/l)	:	
7.	Methyl Parathion	:	
8.	Ethion (µg/l)	:	
Pesticide Analysis Report (OCPs)		:	
9.	α-HCH	:	BDL
10.	β- HCH	:	0.05
11.	γ-HCH	:	BDL
12.	δ-HCH	:	BDL
13.	Total BHC (ng/l)	:	BDL
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL
16.	α-Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	BDL
18.	β-Endosulfan	:	BDL
19.	OP'DDT	:	0.062
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sample collecting point in drain



Confluence point in kali -east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (3:08pm)

1.	Name of the Drain	:	Faisalabad (D7)
2.	Meeting Kali-east at -	:	Left bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	-
7.	Catchment area		Left bank Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.4086620,
		Longitude	: 77.8637280
	Distance from confluence point (may the find out over google earth/map), KM		20 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.4086620
		Longitude	: 77.8637280
10	Landmarks / Address of the Location		Near Subji Mandi, Bulandshahr, UP
11	Flow (if in MLD) if zero indicate whether dry or stagnant	:	3.77
12	Observations	:	Sample collected.
13	Urgent action required, if any	:	
14	Name of all monitoring officers along with Designation		1.Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dubish, R.A-I, CPCB 5. Sh. Gitesh Chandra, ASO, UPPCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.51
3.	BOD (mg/l)	97
4.	COD (mg/l)	213
5.	TSS (mg/l)	219
6.	TDS (mg/l)	708
7.	Cl ⁻ (mg/l)	73
8.	NH ₃ -N (mg/l)	36
9.	NO ₃ ⁻ (mg/l)	3.58
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	16x10 ⁶
12.	FC (MPN/ 100 ml)#	16x10 ⁶

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.03
4.	Copper (Cu) mg/l	0.09
5.	Iron (Fe) mg/l	3.62
6.	Lead (Pb) mg/l	0.06
7.	Manganese (Mn) mg/l	0.23
8.	Nickel (Ni) mg/l	0.11
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.25
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	0.01

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	BDL
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	BDL
10.	β- HCH	0.182
11.	γ-HCH	0.259
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.174
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sample collecting & Confluence point in kali -east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (3:08pm)

21.	Name of the Drain	:	Behind Shanidev Mandir (D8)
22.	Meeting Kali-east at -	:	Right bank at Kali-east
23.	Name of the Regional Office of SPCB	:	Bulandshahr
24.	Source of pollution load:	:	Domestic
25.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
26.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	-
27.	Catchment area		Bulandshahr
28.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.408950, 77.862054
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM		-
29.	Co-ordinate of the sampling point (Decimal units)	Latitude	: DRY
		Longitude	
30.	Landmarks / Address of the Location		
31.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	DRY
32.	Observations	:	DRY
33.	Urgent action required, if any	:	
34.	Name of all monitoring officers along with Designation		1.Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dublish, R.A-I, CPCB 5. Sh. Gitesh Chandra, ASO, UPPCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	Dry
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

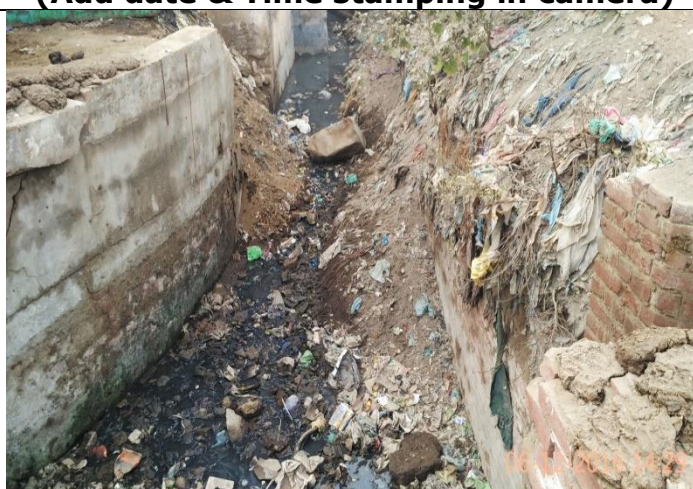
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Dry
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	Dry
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-HCH	Dry
10.	β- HCH	
11.	γ-HCH	
12.	δ-HCH	
13.	Total BHC (ng/l)	
14.	Aldrin (ng/l)	
15.	Diedrin (ng/l)	
16.	α-Endosulfan	
17.	Total Endosulfan (ng/l)	
18.	β-Endosulfan	
19.	OP'DDT	
20.	PP'DDT	
21.	PP'DDE	
22.	Total DDT (ng/l)	

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Dry

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (2:13pm)

1.	Name of the Drain	:	Devipura (D9)
2.	Meeting Kali-east at -	:	Right bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.150m
7.	Catchment area	:	Left bank Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.409924, 77.860877
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM	:	20 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.409924, 77.860877
		Longitude	
10.	Landmarks / Address of the Location	:	Devipura, Bulandshahr, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	3.79
12.	Observations	:	Sample collected.
13.	Urgent action required, if any	:	
14.	Name of all monitoring officers along with Designation	:	1.Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dublish, R.A-I, CPCB 5. Sh. Gitesh Chandra, ASO, UPPCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.56
3.	BOD (mg/l)	70
4.	COD (mg/l)	159
5.	TSS (mg/l)	81
6.	TDS (mg/l)	676
7.	Cl ⁻ (mg/l)	67
8.	NH ₃ -N (mg/l)	32
9.	NO ₃ ⁻ (mg/l)	3.07
10.	PO ₄ -P	
11.	DO (mg/l)*	
12.	TC (MPN/ 100 ml)#	54x10 ⁶
13.	FC (MPN/ 100 ml)#	35x10 ⁶

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.04
5.	Iron (Fe) mg/l	1.85
6.	Lead (Pb) mg/l	0.02
7.	Manganese (Mn) mg/l	0.14
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.10
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters		Results
1.	Water temperature (°C)	:	
Pesticide Analysis Report (OPPs)		:	
2.	Monochrotophos	:	Sample was not collected
3.	Dimethoate (µg/l)	:	
4.	Methyl Parathion (µg/l)	:	
5.	Malathion (µg/l)	:	
6.	Chloropyriphos (µg/l)	:	
7.	Methyl Parathion	:	
8.	Ethion (µg/l)	:	
Pesticide Analysis Report (OCPs)		:	
9.	α-HCH	:	BDL
10.	β- HCH	:	0.162
11.	γ-HCH	:	BDL
12.	δ-HCH	:	BDL
13.	Total BHC (ng/l)	:	BDL
14.	Aldrin (ng/l)	:	BDL
15.	Diedrin (ng/l)	:	BDL
16.	α-Endosulfan	:	BDL
17.	Total Endosulfan (ng/l)	:	BDL
18.	β-Endosulfan	:	BDL
19.	OP'DDT	:	0.079
20.	PP'DDT	:	BDL
21.	PP'DDE	:	BDL
22.	Total DDT (ng/l)	:	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sample collecting point in drain



Confluence point in kali -east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (1:02pm)

1.	Name of the Drain	:	Bridge Dhameda Road (D10)
2.	Meeting Kali-east at -	:	Right bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.500m
7.	Catchment area		Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 28.412799,
		Longitude	77.858615
	Distance from confluence point (may the find out over google earth/map), KM		20 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 28.412799,
		Longitude	77.858615
10.	Landmarks / Address of the Location		Bulandshahr, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.00
12.	Observations	:	Sample Collected.
13.	Urgent action required, if any	:	
14.	Name of all monitoring officers along with Designation		1.Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dublish, R.A-I, CPCB 5. Sh. Gitesh Chandra, ASO, UPPCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.35
3.	BOD (mg/l)	88
4.	COD (mg/l)	236
5.	TSS (mg/l)	111
6.	TDS (mg/l)	1084
7.	Cl ⁻ (mg/l)	123
8.	NH ₃ -N (mg/l)	20
9.	NO ₃ ⁻ (mg/l)	4.64
10.	DO (mg/l)*	4.83
11.	TC (MPN/ 100 ml)#	-
12.	FC (MPN/ 100 ml)#	-

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

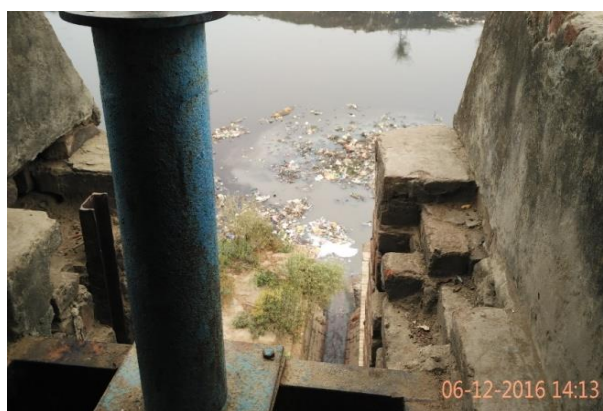
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.02
5.	Iron (Fe) mg/l	1.57
6.	Lead (Pb) mg/l	0.17
7.	Manganese (Mn) mg/l	0.23
8.	Nickel (Ni) mg/l	0.11
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.09
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	BDL
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	BDL
10.	β- HCH	BDL
11.	γ-HCH	BDL
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photograph with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sample collecting & Confluence point in kali -east

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 06.12.2016 (1:46pm)

1.	Name of the Drain	:	Behind Chamunda Mandir (D12)
2.	Meeting Kali-east at -	:	Right bank at Kali-east
3.	Name of the Regional Office of SPCB	:	Bulandshahr
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicated industrial sector)	:	N.A
6.	Traceable length of drain (in Km) before meeting Kali-east (through google earth/map)	:	Approx.1 km
7.	Catchment area		Right bank Bulandshahr
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	28.420068,
		Longitude	77.851882
	Distance from confluence point (may the find out over google earth/map), KM		50 meter
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	28.420068,
		Longitude	77.851882
10.	Landmarks / Address of the Location		Awas vikas Colony, /o,-0jm9 mknhgjuBulandshahr, UP
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.0
12.	Observations	:	Sample collected.
13.	Urgent action required, if any	:	
14.	Name of all monitoring officers along with Designation		1.Sh M.K.Biswas, Sci"D", CPCB 2. Dr Pankaj Kumar Sci"D", CPCB 3. Dr Manoj Kumar, R.A-I, CPCB 4. Ms. Garima Dublish, R.A-I, CPCB 5. Sh. Gitesh Chandra, ASO, UPPCB 6. Sh Raj Kumar Sharma, JE, UPJN

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.58
3.	BOD (mg/l)	41
4.	COD (mg/l)	149
5.	TSS (mg/l)	69
6.	TDS (mg/l)	876
7.	Cl ⁻ (mg/l)	80
8.	NH ₃ -N (mg/l)	25
9.	NO ₃ ⁻ (mg/l)	5.22
10.	PO ₄ -P	4.49
11.	DO (mg/l)*	-
12.	TC (MPN/ 100 ml)#	92x10 ⁵
13.	FC (MPN/ 100 ml)#	92x10 ⁵

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

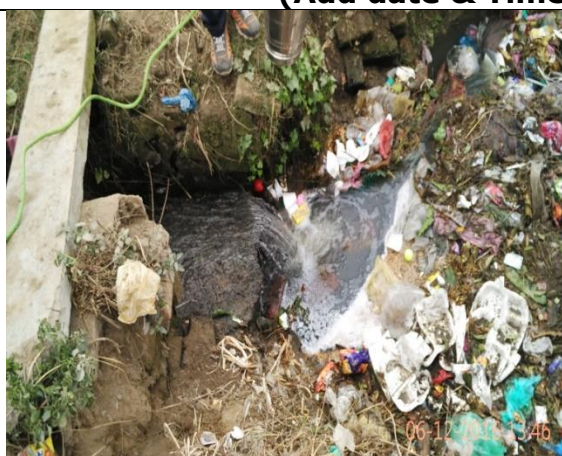
DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	0.10
5.	Iron (Fe) mg/l	1.61
6.	Lead (Pb) mg/l	0.05
7.	Manganese (Mn) mg/l	0.11
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.14
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	BDL
3.	Dimethoate (µg/l)	BDL
4.	Methyl Parathion (µg/l)	BDL
5.	Malathion (µg/l)	BDL
6.	Chloropyriphos (µg/l)	BDL
7.	Methyl Parathion	BDL
8.	Ethion (µg/l)	BDL
Pesticide Analysis Report (OCPs)		:
9.	α-HCH	BDL
10.	β- HCH	BDL
11.	γ-HCH	BDL
12.	δ-HCH	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sample collecting point in drain



Confluence point in kali -east

**DRAIN MONITORING FORMAT
(Kali East)**

Date & Time of sampling: 08.11.2016

1	Name of the Drain	:	Neem Nala (Jahagirabad Drain -1 & 2 and Dibai drain- 1, 2 & 3)
2	Meeting River Kali	:	Left bank
3	Name of the Regional Office of SPCB	:	Buland Shahar & Aligarh
4	Source of pollution load:	:	Domestic
5	If Industrial /Mixed (Please indicate type of sector)	:	NA
7	Catchment area		Buland Shahar, Aligarh & Kasganj
8	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 27°48'29.92"N
		Longitude	: 78°32'27.12"E
	Distance from confluence point (may the find out over google earth/map), KM		
9	Co-ordinate of the sampling point (Decimal units)	Latitude	:
		Longitude	:
10	Landmarks / Address of the Location		
11	Flow if in MLD (Approx)	:	Dry
12	Observations	:	Jahagirabad drain 1 & 2 mixes with Neem nullah and moves towards Dibai town where Dibai Drain 1, 2 & 3 mixes in it and further move towards Gangiri, Kasganj. At Malahpur village towards Ramghat Road it has some water but up to reaching River Kali it becomes fully dry. All these five drains namely Jahangirabad drain 1&2 and Dibai drain 1,2 &3 finally goes to Neem nullah and becomes dry before reaching to River Kali. It should be consider as one major drain may be include in list.
15	Name of all monitoring officers along with Designation		1. Dr. Prashant Singh Sc. D (CPCB) 2. Dr. Sarvesh Rai Sc. C (CPCB) 3. Dr. Hema Patel R.A. CPCB 4. Ms Garima Dublish RA CPCB 5. Er. Kalika Singh RO Aligarh UPPCB 6. Er. K.M. Gupta Ex.En. U.P. Jal Nigam 7. Er. Sudhir Kumar A.E. UP Jal Nigam 8. Mr. Vijay Kumar Yadav A.E. NMCG 9. Shravan Kota, Research Officer NMCG

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	Dry
2.	pH	
3.	BOD (mg/l)	
4.	COD (mg/l)	
5.	TSS (mg/l)	
6.	TDS (mg/l)	
7.	Cl ⁻ (mg/l)	
8.	NH ₃ -N (mg/l)	
9.	NO ₃ ⁻ (mg/l)	
10.	DO (mg/l)*	
11.	TC (MPN/ 100 ml)#	
12.	FC (MPN/ 100 ml)#	

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	Dry
2.	Cadmium (Cd) mg/l	
3.	Total Chromium (Cr) mg/l	
4.	Copper (Cu) mg/l	
5.	Iron (Fe) mg/l	
6.	Lead (Pb) mg/l	
7.	Manganese (Mn) mg/l	
8.	Nickel (Ni) mg/l	
9.	Mercury (Hg) mg/l	
10.	Zinc (Zn) mg/l	
11.	Antimony (Sb) mg/l	
12.	Cobalt (Co) mg/l	
13.	Selenium (Se) mg/l	
14.	Vanadium (V) mg/l	

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Dry
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-HCH	Dry
10.	β-HCH	
11.	γ-HCH	
12.	δ-HCH	
13.	Total HCH (ng/l)	
14.	Aldrin (ng/l)	
15.	Diedrin (ng/l)	
16.	α-Endosulfan	
17.	Total Endosulfan (ng/l)	
18.	β-Endosulfan	
19.	OP'DDT	
20.	PP'DDT	
21.	PP'DDE	
22.	Total DDT (ng/l)	

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



DRAIN MONITORING FORMAT (Kali East)

Date & Time of sampling: 02.11.2016& 2 .57 p.m.

1.	Name of the Drain	:	Kasganj Drain Kasganj(Amapur Bus stand – Amarpur Road, Kasganj)
2.	Meeting Kali	:	Left bank
3.	Name of the Regional Office of SPCB	:	Regional Office, U.P. Pollution Control Board, Aligarh
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 3-4 k.m.
7.	Catchment area		Amapur; Amarpur Kasganj area
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 27 ° 72' 96" N
		Longitude	: 78 °70' 86" E
	Distance from confluence point (may the find out over google earth/map), KM		500 m.
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 27 ° 47' 45" N
		Longitude	: 78 °39' 8" E
10.	Landmarks / Address of the Location		Amarpur Road pulia, Kasganj (2 k.m distance from Amapur
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	09 MLD
12.	Observations	:	The drain is directly fall in river Kali without treatment at 500 m from sampling point near Amarpur village in Kasganj and flow was measured 09 MLD.
13.	Name of all monitoring officers along with Designation		5. Dr. Ravi Prakash Mishra, RA-I, CPCB, ZO(N) Lucknow. 6. Mr.Arvind Kumar, SRF, CPCB, ZO(N)) Lucknow. 7. Dr. J P Singh, ASO, UPPCB, Aligarh 8. Er. Khalid Ahamad Project Manager Yamuna Pollution Control Unit, UP Jal Nigam, Agra. 9. Er.A K Singh , Junior Engineer , UP Jal Nigam, Agra.

DRNIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	6.94
3.	BOD (mg/l)	123
4.	COD (mg/l)	286
5.	TSS (mg/l)	176
6.	TDS (mg/l)	750
7.	Cl ⁻ (mg/l)	104
8.	NH ₃ -N (mg/l)	42.3
9.	NO ₃ ⁻ (mg/l)	0.271
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	92000000
12.	FC (MPN/ 100 ml)#	54,000000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	5.32
6.	Lead (Pb) mg/l	0.014
7.	Manganese (Mn) mg/l	0.008
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	BDL
10.	Zinc (Zn) mg/l	BDL
11.	Antimony (Sb) mg/l	BDL
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	N.D
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-BHC	N.D
10.	β-BHC	
11.	γ-BHC	
12.	δ-BHC	
13.	Total BHC (ng/l)	
14.	Aldrin (ng/l)	
15.	Diedrin (ng/l)	
16.	α-Endosulfan	
17.	Total Endosulfan (ng/l)	
18.	β-Endosulfan	
19.	OP'DDT	
20.	PP'DDT	
21.	PP'DDE	
22.	Total DDT (ng/l)	

N.D. Not detected

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling location of Kasganj drain at village Amarpur road & Date & Time :
02.11.2016 & 3.05 p.m

DRAIN MONITORING FORMAT (Kali-East)

Date & Time of sampling: 03.11.2016 & 3.45 p.m.

1.	Name of the Drain	:	Patta Nala						
2.	Meeting Kali River	:	Left bank -Kali-East						
3.	Name of the Regional Office of SPCB	:	R.O. U.P.P. C.B Kanpur Dehat						
4.	Source of pollution load:	:	(Domestic/Industrial/Mixed)						
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Sl. No.</th> <th style="width: 40%;">Name of Industry</th> <th style="width: 40%;">Sector</th> </tr> </thead> <tbody> <tr> <td colspan="3">There is no industry of red or orange category industry draining into pata nala but small scale industries like Itra etc. are find</td> </tr> </tbody> </table>	Sl. No.	Name of Industry	Sector	There is no industry of red or orange category industry draining into pata nala but small scale industries like Itra etc. are find		
Sl. No.		Name of Industry	Sector						
There is no industry of red or orange category industry draining into pata nala but small scale industries like Itra etc. are find									
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	6 Km						
7.	Catchment area		Sewage nala from Makrandnagar kannauj city.						
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: 27 °08 ' 18" N						
		Longitude	: 79 °92 ' 74" E						
	Distance from confluence point (may the find out over google earth/map), KM		1.5						
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: 27 °03 ' 57" N						
		Longitude	: 79 °55 ' 8" E						
10.	Landmarks / Address of the Location		Near Haji Sharif(Culvert near Hazi Sarif-Deedarganj road)						
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	At the time of sampling flow measured 6.5 MLD. (10.7 Average as per UP Jal Nigam Kannauj)						
12.	Observations	:	During inspection, flow was measured 6.5 MLD and waste water are falling in to R. Kali and ultimately meets to R. Ganga without treatment						
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Ravi Prakash Mishra(RA-I, CPCB) 2. Mr.Arvind kumar (S.R.F. CPCB) 3. Er. U.C. Verma (A.E.E. UPPCB) 4. Er. Neeraj Gupta (Asst. Engg. UP Jal Nigam) 5. Er. Saurabh Shukla (Junior Engg. UP jal Nigam) 						

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.15
3.	BOD (mg/l)	31.1
4.	COD (mg/l)	112
5.	TSS (mg/l)	81.2
6.	TDS (mg/l)	808
7.	Cl ⁻ (mg/l)	116
8.	NH ₃ -N (mg/l)	22.6
9.	NO ₃ ⁻ (mg/l)	0.449
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	5,40,00,000
12.	FC (MPN/ 100 ml)#	1,70,00,000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.277
4.	Copper (Cu) mg/l	BDL
5.	Iron (Fe) mg/l	0.24
6.	Lead (Pb) mg/l	0.099
7.	Manganese (Mn) mg/l	BDL
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	BDL
10.	Zinc (Zn) mg/l	BDL
11.	Antimony (Sb) mg/l	BDL
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	BDL
14.	Vanadium (V) mg/l	BDL

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Not Detected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-BHC	N.D
10.	β-BHC	N.D
11.	γ-BHC	N.D
12.	δ-BHC	N.D
13.	Total BHC (ng/l)	N.D
14.	Aldrin (ng/l)	0.147
15.	Diedrin (ng/l)	N.D
16.	α-Endosulfan	N.D
17.	Total Endosulfan (ng/l)	N.D
18.	β-Endosulfan	N.D
19.	OP'DDT	N.D
20.	PP'DDT	N.D
21.	PP'DDE	N.D
22.	Total DDT (ng/l)	:

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**

Sampling location of Patta Nala at Kannauj



**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 7.12.2016 & 2:45 p m

1.	Name of the Drain	:	Chhemkali temple to Nadangapur (Adanga drain), Kannauj
2.	Meeting Ganga/Ramganga/Kali-east at	:	Meeting to River Kali at Right bank
3.	Name of the Regional Office of SPCB	:	UPPCB, Regional Office, Kanpur dehat
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	NA
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 7.5 km
7.	Catchment area		Mosampur, Alahar, Sikhana, Adangapur etc.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 27°03'49"
		Longitude	: E 79 °57'8"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 750 M
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 27°03'48"
		Longitude	: E 79 °56'40"
10.	Landmarks / Address of the Location		50 m Before end of Pakkanala
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	4.36 MLD
12.	Observations	:	Wastewater was directly meet to River Kali (from sampling location at approx. 750 m) which ultimately meets to River Ganga at approx. 7.5km distance.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. Dr. Ravi Prakash Mishra, RA, CPCB-ZO,Lucknow 2. Sh.Ravinder Singh, SRF, CPCB-ZO,Lucknow 3. Sh. ChendraShekhar, JE. ,UPPCB, RO Kanpur dehat 4. Sh. B. S. Chahar, Project Manager, UP Jal Nigam, Kannauj 5. Sh. Neeraj Gupta, AE, UP Jal Nigam, Kannauj

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.45
3.	BOD (mg/l)	19.2
4.	COD (mg/l)	57.3
5.	TSS (mg/l)	27.8
6.	TDS (mg/l)	722
7.	Cl ⁻ (mg/l)	82.3
8.	NH ₃ -N (mg/l)	31.6
9.	NO ₃ ⁻ (mg/l)	-
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	33,00,000
12.	FC (MPN/ 100 ml)#	33,00,000

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.33
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.13
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	1.39
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: 21°C
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	Sample not collected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
Pesticide Analysis Report (OCPs)		
9.	α-BHC	: 1.298
10.	β-BHC	: 0.248
11.	γ-BHC	: 0.331
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: 1.850
15.	Diedrin (ng/l)	: 1.676
16.	α-Endosulfan	: -
17.	Total Endosulfan (ng/l)	: -
18.	β-Endosulfan	: -
19.	OP'DDT	: -
20.	PP'DDT	: 4.295
21.	PP'DDE	: -
22.	Total DDT (ng/l)	: -

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Sampling point at Adanga drain



Adanga drain end point at River bed of Kali

**DRAIN MONITORING FORMAT
(Kali-east)**

Date & Time of sampling: 7.12.2016 & 3:48p.m

1.	Name of the Drain	:	Tammi Nala, Kannauj
2.	Meeting Ganga/Ramganga/Kali-east at-	:	Not meet to River Kali (in rainy season it meet to river Kali – information provided by villagers)
3.	Name of the Regional Office of SPCB	:	UPPCB, Regional Office, Kanpur dehat
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	-NA-
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 3.5 km
7.	Catchment area		Shikhana, Police line, Bajariya, Tammy house etc.
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	NA
		Longitude	
	Distance from confluence point (may the find out over google earth/map), KM		NA
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	N 27°3'4"
		Longitude	E 79 °55'47"
10.	Landmarks / Address of the Location		Near MasjidShikhana
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	1.22 MLD
12.	Observations	:	Drain was monitored near Masjid Shikhana and carries domestic waste water from nearby areas. It was observed that the wastewater logged near Sadikapur village.
13.	Name of all monitoring officers along with Designation		<ol style="list-style-type: none"> 1. 1.Dr. Ravi Prakash Mishra, RA, CPCB-ZO,Lucknow 2. 2.Sh.Ravinder Singh, SRF, CPCB-ZO,Lucknow 9. Sh. ChendraShekhar, JE. ,UPPCB, RO Kanpur dehat 5. Sh. B. S. Chahar, Project Manager, UP Jal Nigam, Kannauj 6. Sh. Neeraj Gupta, AE, UP Jal Nigam, Kannauj

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results	
13.	Colour	:	-
14.	pH	:	7.59
15.	BOD (mg/l)	:	39.6
16.	COD (mg/l)	:	120
17.	TSS (mg/l)	:	84
18.	TDS (mg/l)	:	772
19.	Cl ⁻ (mg/l)	:	107
20.	NH ₃ -N (mg/l)	:	19.4
21.	NO ₃ ⁻ (mg/l)	:	-
22.	DO (mg/l)*	:	-
23.	TC (MPN/ 100 ml)#	:	1,70,00,000
24.	FC (MPN/ 100 ml)#	:	1,70,00,000

*For Fresh water carrying drains/ rivers
#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results	
1.	Arsenic (As) mg/l	:	BDL
2.	Cadmium (Cd) mg/l	:	BDL
3.	Total Chromium (Cr) mg/l	:	BDL
4.	Copper (Cu) mg/l	:	-
5.	Iron (Fe) mg/l	:	0.48
6.	Lead (Pb) mg/l	:	BDL
7.	Manganese (Mn) mg/l	:	0.13
8.	Nickel (Ni) mg/l	:	BDL
9.	Mercury (Hg) mg/l	:	-
10.	Zinc (Zn) mg/l	:	BDL
11.	Antimony (Sb) mg/l	:	-
12.	Cobalt (Co) mg/l	:	BDL
13.	Selenium (Se) mg/l	:	-
14.	Vanadium (V) mg/l	:	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	: 21°C
Pesticide Analysis Report (OPPs)		:
2.	Monochrotophos	: Sample not collected
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
Pesticide Analysis Report (OCPs)		:
9.	α-BHC	: NT
10.	β-BHC	: NT
11.	γ-BHC	: NT
12.	δ-BHC	: -
13.	Total BHC (ng/l)	: -
14.	Aldrin (ng/l)	: 0.588
15.	Diedrin (ng/l)	: 0.149
16.	α-Endosulfan	: -
17.	Total Endosulfan (ng/l)	: -
18.	β-Endosulfan	: -
19.	OP'DDT	: -
20.	PP'DDT	: 1.308
21.	PP'DDE	: -
22.	Total DDT (ng/l)	: -

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**

Sampling point of Tammi drain



Wastewater logged near Sadikapur village



VI. Data Sheet of Drains Joining River Pandu.

**DRAIN MONITORING FORMAT
(River Pandu)**

Date & Time of sampling: October 26, 2016 at 11:45 am

1.	Name of the Drain	:	Panki Thermal Power Plant, Drain
2.	Meeting River Pandu at -	:	Left bank - Pandu
3.	Name of the Regional Office of SPCB	:	Kanpur UPPCB
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 1.6 Km
7.	Catchment area		Kanpur City, New Transport Nagar, Thermal Power Plant
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 26' 17.2536"
		Longitude	: E 80° 15' 9.5898"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 50 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26°27'60.0"
		Longitude	: E 80° 13' 59.8"
10.	Landmarks / Address of the Location		New Transport Nagar, Panki, Jhansi Bypass
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 74.17MLD
12.	Observations	:	Pank idrain is puckka drain and flowing thermal power Plant, Y-block, KFCL area, Panki site I, Panki Industrial Area.
13.	Name of all monitoring officers along with Designation		1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Dr. R.P. Mishra, RA-1, CPCB ZO Lucknow 4. Sh. S.K. Awasthi, JEE, UPPCB, Kanpur 5. Sh. Raguvendra Pratap, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.14
3.	BOD (mg/l)	14.0
4.	COD (mg/l)	41.0
5.	TSS (mg/l)	60.2
6.	TDS (mg/l)	384
7.	Cl ⁻ (mg/l)	61.0
8.	NH ₃ -N (mg/l)	16.9
9.	NO ₃ ⁻ (mg/l)	2.93
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	2200000
12.	FC (MPN/ 100 ml)#	1100000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.62
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.06
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.20
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Not Detected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-BHC	BDL
10.	β-BHC	0.10
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling point of Panki (TPP) Drain



Fig- Confluence point of Panki Drain with River Pandu

**DRAIN MONITORING FORMAT
(River Pandu)**

Date & Time of sampling: October 26, 2016 at 1:30 pm

1.	Name of the Drain	:	ICI Drain, Kanpur
2.	Meeting River Pandu at -	:	Left bank – Pandu
3.	Name of the Regional Office of SPCB	:	Kanpur UPPCB
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Please indicate type of sector)	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 1.0 Km
7.	Catchment area		Kanpur city
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 26' 8.682"
		Longitude	: E 80° 15' 13.6038"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 20 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26° 26' 12.6996"
		Longitude	: E 80° 15' 15.6024"
10.	Landmarks / Address of the Location		Near LML Industry, Panki Kanpur
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	19.44 MLD
12.	Observations	:	1. ICI drain carries mixed Industrial effluent & domestic sewage direct falling into river Pandu which ultimately meets in river Ganga. 2. At the time of inspection, its flow was measured to be 19.44 MLD.
13.	Name of all monitoring officers along with Designation		1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Dr. R.P. Mishra, RA-1, CPCB ZO Lucknow 4. Sh. S.K. Awasthi, JEE, UPPCB, Kanpur 5. Sh. Raguvendra Pratap, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	8.16
3.	BOD (mg/l)	42.9
4.	COD (mg/l)	141
5.	TSS (mg/l)	146
6.	TDS (mg/l)	3122
7.	Cl ⁻ (mg/l)	1496
8.	NH ₃ -N (mg/l)	193
9.	NO ₃ ⁻ (mg/l)	9.85
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	2400000
12.	FC (MPN/ 100 ml)#	790000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.06
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	2.60
6.	Lead (Pb) mg/l	0.22
7.	Manganese (Mn) mg/l	0.72
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	6.18
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Not Detected
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	BDL
10.	β-BHC	1.21
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	BDL
20.	PP'DDT	0.08
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling point of ICI Drain



Fig- Confluence point of ICI Drain & River Pandu

**DRAIN MONITORING FORMAT
(River Pandu)**

Date & Time of sampling: 26.10.2016 & 12.30 pm

1.	Name of the Drain	:	Ganda Nalla , Kanpur
2.	Meeting River Pandu at -	:	Left bank - Pandu
3.	Name of the Regional Office of SPCB	:	Kanpur UPPCB
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (Please indicate type of sector)	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 13.50 Km
7.	Catchment area		Industrial area Panki, Gujani village. Kanpur City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 25' 42.9954"
		Longitude	: E 80° 16' 59.8548"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 0.5 km
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26 °26'46.3"
		Longitude	: E 80°17'38.46"
10.	Landmarks / Address of the Location		Vijay Nagar, Barra -4
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	210.5 MLD
12.	Observations	:	Ganda drain is a major drain this is directly meets into River Pandu which ultimately meeting in river Ganga at the time of inspection, its flow was measured 210.5 MLD. With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 136.81 MLD The Panki canal mixing in to the Ganda Drain at U.P.Kirana Girls School and gets diluted.
13.	Name of all monitoring officers along with Designation		1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Dr. R.P. Mishra, RA-1, CPCB ZO Lucknow 4. Sh. S.K. Awasthi, JEE, UPPCB, Kanpur 5. Sh. Raguvendra Pratap, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.17
3.	BOD (mg/l)	66.6
4.	COD (mg/l)	203
5.	TSS (mg/l)	105
6.	TDS (mg/l)	774
7.	Cl ⁻ (mg/l)	117
8.	NH ₃ -N (mg/l)	55.2
9.	NO ₃ ⁻ (mg/l)	2.87
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	5,40,00,000
12.	FC (MPN/ 100 ml)#	3,50,00,000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.04
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	1.64
6.	Lead (Pb) mg/l	0.02
7.	Manganese (Mn) mg/l	0.12
8.	Nickel (Ni) mg/l	0.02
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.40
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Not Detected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-BHC	BDL
10.	β-BHC	2.00
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.06
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- Sampling point of Ganda Drain



Fig-Confluence point of Ganda Drain & R. Pandu

DRAIN MONITORING FORMAT (River Pandu)

Date & Time of sampling: 26.10.2016& 5:0 pm

1.	Name of the Drain	:	COD Nalla , Panki, Kanpur
2.	Meeting River Pandu at -	:	Left bank - Pandu
3.	Name of the Regional Office of SPCB	:	RO UPPCB, Kanpur
4.	Source of pollution load:	:	Mixed
5.	If Industrial /Mixed (Please indicate type of sector)	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 6.2 Km
7.	Catchment area		Kanpur City
8.	Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units)	Latitude	: N 26° 22' 13.4796"
		Longitude	E 80° 18' 27.1326"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 20 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	" N 26 °25'35.4"
		Longitude	E 80°20'96.4"
10.	Landmarks / Address of the Location		Neura Village
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 78.62 MLD
12.	Observations	:	1. COD (Commercial Ordinance Depot) drain carries wastewater from COD, Yashodanagar, Babupurwa, Kidwainagar, Y block, defence Colony. 2. This drain meets to river Pandu which ultimately meets river Ganga. At the time of monitoring the drain was found tapped into STP (210 MLD)
13.	Name of all monitoring officers along with Designation		1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Dr. R.P. Mishra, RA-1, CPCB ZO Lucknow 4. Sh. S.K. Awasthi, JEE, UPPCB, Kanpur 5. Sh. Raguvendra Pratap, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.47
3.	BOD (mg/l)	54.6
4.	COD (mg/l)	145
5.	TSS (mg/l)	73.5
6.	TDS (mg/l)	787
7.	Cl ⁻ (mg/l)	105
8.	NH ₃ -N (mg/l)	48.9
9.	NO ₃ ⁻ (mg/l)	2.59
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	2200,000
12.	FC (MPN/ 100 ml)#	4,90,000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	0.04
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	0.84
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.14
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	0.22
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Not Detected
3.	Dimethoate (µg/l)	
4.	Methyl Parathion (µg/l)	
5.	Malathion (µg/l)	
6.	Chloropyriphos (µg/l)	
7.	Methyl Parathion	
8.	Ethion (µg/l)	
	Pesticide Analysis Report (OCPs)	
9.	α-BHC	0.05
10.	β-BHC	0.39
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.09
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**



Fig- sampling point of COD Nalla, Panki



Fig-COD Nala Tapped into STP

DRAIN MONITORING FORMAT (River Pandu)

Date & Time of sampling: 26-10-2016 at 4:00 pm

1.	Name of the Drain	:	Halwa Khanda Nalla , Kanpur
2.	Meeting River Pandu at -	:	Right bank- Pandu
3.	Name of the Regional Office of SPCB	:	Kanpur UPPCB
4.	Source of pollution load:	:	Domestic
5.	If Industrial /Mixed (name of the units & sector) and details may be obtained confirmed from the regional officers of SPCB	:	N.A
6.	Traceable length (in Km) before meeting Ganga (through google earth/map)	:	Approx. 6.7 Km
7.	Catchment area		Kanpur City
8.	Co-ordinate of the confluence point (if not reachable indirect though google earth/map) (Decimal units)	Latitude	: N 26° 24' 22.2474"
		Longitude	: E 80° 17' 21.141"
	Distance from confluence point (may the find out over google earth/map), KM		Approx. 5 m
9.	Co-ordinate of the sampling point (Decimal units)	Latitude	: N 26° 24' 27.9036"
		Longitude	: E 80° 17' 24.6948"
10.	Landmarks / Address of the Location		Jarauli.
11.	Flow (if in MLD) if zero indicate whether dry or stagnant	:	With 0.65 factor for Averaging of surface Velocity and drain cross section profile the flow is 40.49 MLD
12.	Observations	:	Halwa Khanda drain is diverted in to the COD drain. At the time of inspection, it was noticed that the over flow of check dam got its path towards R. Pandu, which ultimately meets R. Ganga.
13.	Name of all monitoring officers along with Designation		1. Sh. R.B. Singh, Sci. C, CPCB ZO Lucknow 2. Sh. Rajesh Kumar, RA-1, CPCB ZO Lucknow 3. Dr. R.P. Mishra, RA-1, CPCB ZO Lucknow 4. Sh. S.K. Awasthi, JEE, UPPCB, Kanpur 5. Sh. Raguvendra Pratap, AEE, J.N. Kanpur

DRAIN MONITORING FORMAT
(General parameters)

Sl. No.	Parameters	Results
1.	Colour	-
2.	pH	7.23
3.	BOD (mg/l)	82.0
4.	COD (mg/l)	206
5.	TSS (mg/l)	88.9
6.	TDS (mg/l)	729
7.	Cl ⁻ (mg/l)	99.0
8.	NH ₃ -N (mg/l)	50.6
9.	NO ₃ ⁻ (mg/l)	2.0
10.	DO (mg/l)*	-
11.	TC (MPN/ 100 ml)#	1,70,00,000
12.	FC (MPN/ 100 ml)#	33,00,000

*For Fresh water carrying drains/ rivers

#For sewage, mixed Drains & River

DRAIN MONITORING FORMAT
(Trace Metal/ Heavy Metal)

Sl. No.	Parameters	Results
1.	Arsenic (As) mg/l	BDL
2.	Cadmium (Cd) mg/l	BDL
3.	Total Chromium (Cr) mg/l	BDL
4.	Copper (Cu) mg/l	-
5.	Iron (Fe) mg/l	1.22
6.	Lead (Pb) mg/l	BDL
7.	Manganese (Mn) mg/l	0.18
8.	Nickel (Ni) mg/l	BDL
9.	Mercury (Hg) mg/l	-
10.	Zinc (Zn) mg/l	2.18
11.	Antimony (Sb) mg/l	-
12.	Cobalt (Co) mg/l	BDL
13.	Selenium (Se) mg/l	-
14.	Vanadium (V) mg/l	-

**DRAIN MONITORING FORMAT
(Pesticide)**

Sl. No.	Parameters	Results
1.	Water temperature (°C)	:
	Pesticide Analysis Report (OPPs)	:
2.	Monochrotophos	Not Detected
3.	Dimethoate (µg/l)	:
4.	Methyl Parathion (µg/l)	:
5.	Malathion (µg/l)	:
6.	Chloropyriphos (µg/l)	:
7.	Methyl Parathion	:
8.	Ethion (µg/l)	:
	Pesticide Analysis Report (OCPs)	:
9.	α-BHC	0.05
10.	β-BHC	0.56
11.	γ-BHC	BDL
12.	δ-BHC	BDL
13.	Total BHC (ng/l)	BDL
14.	Aldrin (ng/l)	BDL
15.	Diedrin (ng/l)	BDL
16.	α-Endosulfan	BDL
17.	Total Endosulfan (ng/l)	BDL
18.	β-Endosulfan	BDL
19.	OP'DDT	0.07
20.	PP'DDT	BDL
21.	PP'DDE	BDL
22.	Total DDT (ng/l)	BDL

**Photographs with captions – Sampling & Confluence point
(Add date & Time stamping in camera)**

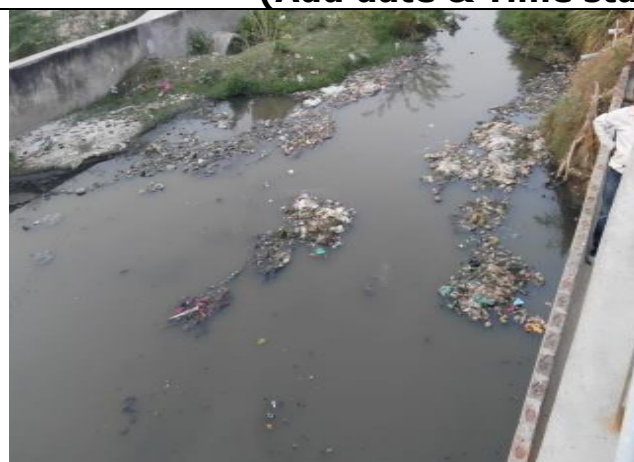


Fig- Sampling point of Halwa Khanda Drain



Fig- Near Confluence point of Halwa Khanda Drain & R. Pandu

VII. Corrections and Updates

13. Corrections and Updation made in report submitted on 2nd January, 2017

I. Corrections

Name of the drain	Page No.	Typological Mistake/Error	Corrected
Garh Drain (Ganga)	45	As 01 mg/l	As 0.01 mg/l
Lakshman ghat drain (Ganga)	75	TC 33,000 FC 33,000	TC 3,30,000 FC 3,30,000
Sheetla Bazaar Drain (Ganga)	129	BOD 35.5533	BOD 533 mg/l
Jhabbu Ka Nala	218	Fe 36.01 mg/l	Fe 34.01 mg/l
Abu Nala 2 (Kali East)	247	Fe 1.8 mg/l (Round off)	Fe 1.76 mg/l
Odean Nallah (Slaughter House) (Kali-East)	250	Cr 0.1 mg/l Fe 5.0 mg/l (Round off)	Cr 0.07 mg/l Fe 4.95 mg/l
Hapur Drain (Kali East)	256	Co - BLD	Co - BDL

Devraniya Drain (Ramganga) (Page No. 232)

Nakatiya (Ramganga) (Page No. 239)

	Old	New
Arsenic (As) mg/l	-	BDL
Cadmium (Cd) mg/l	BDL	BDL
Total Chromium (Cr) mg/l	0.034	BDL
Copper (Cu) mg/l	0.008	BDL
Iron (Fe) mg/l		4.82
Lead (Pb) mg/l		0.063
Manganese (Mn) mg/l	0.086	0.108
Nickel (Ni) mg/l	-	BDL
Mercury (Hg) mg/l	-	BDL
Zinc (Zn) mg/l	0.058	BDL
Antimony (Sb) mg/l	-	BDL
Cobalt (Co) mg/l	BDL	BDL
Selenium (Se) mg/l	-	BDL
Vanadium (V) mg/l	-	BDL

	Old	New
Arsenic (As) mg/l	-	BDL
Cadmium (Cd) mg/l	BDL	BDL
Total Chromium (Cr) mg/l	BDL	BDL
Copper (Cu) mg/l	0.002	BDL
Iron (Fe) mg/l	-	2.32
Lead (Pb) mg/l	-	BDL
Manganese (Mn) mg/l	0.21	0.17
Nickel (Ni) mg/l	-	BDL
Mercury (Hg) mg/l	-	BDL
Zinc (Zn) mg/l	0.08	0.227
Antimony (Sb) mg/l	-	BDL
Cobalt (Co) mg/l	BDL	BDL
Selenium (Se) mg/l	-	BDL
Vanadium (V) mg/l	-	BDL

Chawari Nala (Ramganga)
(Page No. 235)

	Old	New
Arsenic (As) mg/l	-	BDL
Cadmium (Cd) mg/l	BDL	BDL
Total Chromium (Cr) mg/l	BDL	BDL
Copper (Cu) mg/l	BDL	BDL
Iron (Fe) mg/l	-	1.21
Lead (Pb) mg/l	-	0.062
Manganese (Mn) mg/l	0.252	0.162
Nickel (Ni) mg/l	-	BDL
Mercury (Hg) mg/l	-	BDL
Zinc (Zn) mg/l	0.054	BDL
Antimony (Sb) mg/l	-	BDL
Cobalt (Co) mg/l	0.03	BDL
Selenium (Se) mg/l	-	BDL
Vanadium (V) mg/l	-	BDL

Kasganj (Kali)
(Page No. 316)

	Old	New
Arsenic (As) mg/l	-	BDL
Cadmium (Cd) mg/l	BDL	BDL
Total Chromium (Cr) mg/l	BDL	BDL
Copper (Cu) mg/l	0.008	BDL
Iron (Fe) mg/l	-	5.32
Lead (Pb) mg/l	-	0.014
Manganese (Mn) mg/l	0.144	0.008
Nickel (Ni) mg/l	-	BDL
Mercury (Hg) mg/l	-	BDL
Zinc (Zn) mg/l	0.112	BDL
Antimony (Sb) mg/l	-	BDL
Cobalt (Co) mg/l	BDL	BDL
Selenium (Se) mg/l	-	BDL
Vanadium (V) mg/l	-	BDL

Patta Nala (River Kali)
(Page No. 319)

	Old	New
Arsenic (As) mg/l	-	BDL
Cadmium (Cd) mg/l	BDL	BDL
Total Chromium (Cr) mg/l	BDL	0.277
Copper (Cu) mg/l	0.042	BDL
Iron (Fe) mg/l	-	0.24
Lead (Pb) mg/l	-	0.099
Manganese (Mn) mg/l	0.116	BDL
Nickel (Ni) mg/l	-	BDL
Mercury (Hg) mg/l	-	BDL
Zinc (Zn) mg/l	0.152	BDL
Antimony (Sb) mg/l	-	BDL
Cobalt (Co) mg/l	BDL	BDL
Selenium (Se) mg/l	-	BDL
Vanadium (V) mg/l	-	BDL

II. Updatations

S. No.	Name of Drain	Update	Page No.
1.	Bhairoghat drain/Tokahgat Nala	Updated (pesticide OPPs) as sample not collected	61
2.	Dhinapur drain	Updated (pesticide OPPs) as sample not collected	64
3.	Hathikhana Nala-Fatehgarh	Updated (pesticide OPPs) as sample not collected	67
4.	Bargadiya Ghat drain	Updated (pesticide OPPs) as sample not collected	70
5.	Bramhavart Drain	Updated Heavy metal and Pesticide OCPs Value	72-73
6.	Lakshman ghat drain	Updated Heavy metal and Pesticide OCPs Value	75-76
7.	Lavkush ghat Drain	Updated Heavy metal and Pesticide OCPs Value	78-79
8.	Bhunighat drain	Updated Heavy metal and Pesticide OCPs Value	81-82
9.	Gudara ghat	Updated as sample not collected at the time of inspection	84-85
10.	Kalwarighat drain	Updated Heavy metal and Pesticide OCPs Value	87-88
11.	Peshwa ghat	Updated Heavy metal and Pesticide OCPs Value	90-91
12.	Permiya Nala	Updated (pesticide OPPs) as sample not collected	94
13.	Ranighat drain	Updated (pesticide OPPs) as sample not collected	97
14.	Sisamau Nala	Updated (pesticide OPPs) as sample not collected	100
15.	Tefco Nala	Updated (Heavy Metal and Pesticide) as sample not collected due to dry	102-103
16.	Parmath drain	Updated (Heavy Metal and Pesticide) as sample not collected due to dry	105-106
17.	Muir drain	Updated as pesticide OPPs sample not collected	109
18.	Police Line drain	Updated as dry in all field	111-112
19.	Jail drain	Updated as dry in all field	114-115
20.	Golaghat Nala	Updated (pesticide OPPs) as sample not collected	118

21.	Bhagwatdas Nala/Guptarghat Nala	Updated (pesticide OPPs) as sample not collected	121
22.	Satti Chaura	Updated (pesticide OPPs) as sample not collected	123
23.	Shetla Bazar (Kachha nala)	Updated (pesticide OPPs) as sample not collected	130
24.	Budhiyaghat Drain	Updated (pesticide OPPs) as sample not collected	133
25.	Wazidpur Nalla	Updated (pesticide OPPs) as sample not collected	136
26.	Manohar Nagar Drain-1	Deleted General Parameters value, the drain is Dry	139
27.	Manohar Nagar Drain-2	Updated analysis result in whole sheet	142-143
28.	Railway Bridge Drain	Updated Heavy Metal & Pesticide values	145-147
29.	Indernagar Drain	Updated Heavy Metal & Pesticide values	149-150
30.	Ganga Vishnu Drain	Updated as drain is almost dry	151-153
31.	City Jail Drain (Dakary Drain)	Updated (pesticide OPPs) as sample not collected	156
32.	Loni Drain	Updated (pesticide OPPs) as sample not collected	160
33.	Nawabpura Drain 1st	Updates (pesticide OPPs and OCPs) as sample not collected	174
34.	Nawabpura Drain 2nd	Updates (pesticide OPPs and OCPs) as sample not collected	177
35.	Vivekanand Hospital Drain (Left)	Updated General Parameters values and Heavy Metal & pesticide updated as sample not collected	179-180
36.	Vivekanand Hospital Drain (Right)	Image update	183
37.	Chakkar Ki Milak (Mukarampur)	Updated (pesticide OPPs and OCPs) as sample not collected	195
38.	Jigar Colony	Updates (pesticide OPPs and OCPs) as sample not collected	198
39.	Prabhat Nagar drain (near Chandausi Road)	Updated as sample could not be taken	227-228

40.	Devraniya Drain	Updated Pesticide Values	232
41.	Chawari (Chaubari) Drain	Updated Pesticide Values	236
42.	Nakatiya Drain	Updated Pesticide Values	240
43.	Kadarabad Drain	updated (pesticide) as sample not collected	263
44.	Aadil Nala	Updated (pesticide OPPs) as sample not collected	275
45.	Chandbhari Road Nala (Bulandshahar 2)	Updated (pesticide OPPs) sample not collected	281
46.	Adil Nagar 2	Updated as Dry drain and removed pesticide value	292-293
47.	Kasai Bada (D6)	Updated TC/FC Value	295
48.	Faisalabad (D7)	Updated TC/FC Value	298
49.	Neem Nala	Update as dry	313-314
50.	Kasganj Drain	Updated (pesticide value) as not detected	317
51.	Patta Nala	Updated (Pesticide OPPs value) as not detected and Pesticide OCPs analysis result	320
52.	Chhemkali temple (Adanga drain)	Updated (Heavy metal and Pesticide OCPs) Value	322-323
53.	Tammi Nala	Updated (Heavy metal and Pesticide OCPs) Value	325-326



Central Pollution Control Board
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