

Department of Environment, Govt. of NCT of Delhi

Level 6th, Wing C, Delhi Secretariat, IP Estate, New Delhi-02

Tele Fax: 23392029

No.F.12 (585)/Env/NGT/OA 673 of 2018/PF III/ 2085-2087

Dated: 3.4.2019

To

Dr. J. C. Babu,
Addl Director, WQM-I Division,
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
Delhi – 32.

Ref.: Your letter No. F.No. A-14011/1/2019-WQM-I/17277, dt. 25.02.2019

Sub.: Compliance to Hon'ble NGT (PB) New Delhi order dated 20th September, 2018 in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB".

Sir,

In reference to above, as desired, kindly find enclosed the revised Action Plan for Rejuvenation of River Yamuna of RRC Delhi for kind perusal and consideration please.

Encl.: As above.

Yours sincerely,

(S M Ali)

Spl. Secretary (Env.)-cum- Member Secretary (DPCC)

Copy to:

1. Dr. A. Sudhakar, Divisional Head, WQM-I, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 32.
2. Secretary (Env.)-cum-Chairman DPCC.

ACTION PLAN

BY

RIVER REJUVENATION COMMITTEE (RRC)

GOVT. OF NCT OF DELHI

FOR

RIVER YAMUNA

(WAZIRABAD TO ASGARPUR VILLAGE -22 Km, PRIORITY - I STRETCH)

(In compliance to directions of the Hon'ble National Green Tribunal issued vide order dt. 20.09.2018 and 19.12.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB")

INDEX

Sr. No.	Topic	Page No.
1.	Introduction	4
1.1	Orders of The Hon'ble NGT and formation of River Rejuvenation Committee (RRC) for Delhi	4
1.1.1	Order Dated 20.09.2018	4
1.1.1.1	Details of Polluted Stretch of River Yamuna	4
1.1.1.2	Objectives of the Action Plan	5
1.1.1.3	Components of the Action Plan	5
1.1.2.	Order Dated 19.12.2018	7
1.2	Agencies/Departments Involved/Responsible for Implementation of the Action Plan	8
1.3	Timelines for Implementation of Action Plan	8
1.4	limitations	8
2.	River Yamuna	10
2.1	Background, Flow In Yamuna And Various Sources Of Pollution	10
2.2	Population of Delhi and Water Consumption	11
3.	Sources of River Yamuna Pollution	14
4.	Drains falling into Yamuna in Delhi	16
4.1	Drain-wise Water Quality Status	17
5.	Sewage Generation	20
6.	STPs in Delhi	20
6.1	List of functioning STPs in Delhi	21
6.2	Upgradation/ Rehabilitation of STPs	24
6.3	Gaps in Sewage Treatment and the way forward with timelines	26

6.4	Status of new STPs proposed	28
7.	Interceptor sewer project	31
8.	Septage Management	34
9.	Utilization of treated waste water	35
10.	Municipal Solid Waste Management	36
10.1	Existing Treatment and Disposal Facilities and Total Capacity	36
10.2	Waste to Energy Plants in Delhi	36
10.3	MSW Management (Action Plan with timelines) (As per the available information from the three MCDs)	38
10.3.1	Remediation of Existing SLFS	38
10.3.2	Waste to Energy Plants (Expansion and new proposed) + Other Decentralized Waste Management Options	41
10.4	Prevention of dumping of solid waste in the Drains	44
11.	Industrial areas located in Delhi with No. of Industries in each	45
11.1	No. of Industries having Captive ETPS and their Treatment Capacity in MLD	45
11.2	No. of CETP'S and their Treatment Capacity	46
11.3	On Line Monitoring System (OLMS)	48
11.4	OCEMS	48
11.5	Gaps in Treatment of Industrial Effluent	48
12.	Total Hazardous Waste Generation in Delhi	49
12.1	Status of Treatment Storage and Disposal Facility (TSDF) for Disposal of Hazardous Waste of Delhi:	49
13.	Protection of Flood Plain & Prevention of Encroachment	50
14.	Brief on the Mechanism for Granting Groundwater	52

	Extraction Permission in Delhi And Rainwater Harvesting	
15.	Details of Plantation in Yamuna Flood Plains by Forest Dept.	57
16.	Rain Water Harvesting	61
17.	Minimum Environmental Flow	61
18.	Action Plan for Aeration /Ozonation of major drains with I&FC Department wherever feasible	61
19.	Good Irrigation Practices	62
20.	Action Plan of Desilting of Drains By I & FC Dept. - 2019	62
21.	Min. and Max. required Time Period for Implementation of Action Plans	68
22.	Total Estimated Budget for Implementation of the Action Plan	69
23.	Proposed Mechanism for Execution of Action Plans	69
24.	Uploading on Website	69
25.	Awareness Activities and Involvement of Civil Society	69
ANNEXURES		
Annexure-1	Order dated 22.10.2018 regarding Constitution of RRC, Delhi	71
Annexure-2	MOM 1 st RRC Meeting	74
Annexure-3	MOM 2 nd RRC Meeting	79
Annexure-4	MOM 3 rd RRC Meeting	86
Annexure-5	MOM 4 th RRC Meeting	96

1. INTRODUCTION

1.1 ORDERS OF THE HON'BLE NGT AND FORMATION OF RIVER REJUVENATION COMMITTEE (RRC) FOR DELHI

1.1.1. ORDER DATED 20.09.2018

Hon'ble National Green Tribunal in its order dt. **20.09.2018** passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB" had issued specific directions. As per para 50 (ii) Hon'ble NGT has directed constitution of a River Rejuvenation Committee (RRC). The committee for Delhi has been constituted vide order dt. 22.10.2018 (**ANNEXURE I**).

As per the order, the following is the Constitution of the committee:

- 1. Director, Department of Environment, GNCTD**
- 2. Director, Department of Urban Development, GNCTD**
- 3. Director, Industries, GNCTD**
- 4. Member Secretary, DPCC**

The RRC to function under the overall supervision and coordination of Principal Secretary, Environment, Department of Environment, GNCTD.

1.1.1.1 DETAILS OF POLLUTED STRETCH OF RIVER YAMUNA

As per the Hon'ble NGT order, in case of Delhi, the polluted stretch of River Yamuna has been identified from **Wazirabad to Asgarpur village (22 km) which is a Priority I Stretch.**

1.1.1.2 OBJECTIVES OF THE ACTION PLAN

As per the directions of the Hon'ble NGT in OA 673/2018 dt. 20.09.2018, RRC has to prepare action plan for bringing the polluted river stretches to be fit at least for bathing purposes (i.e BOD < 3 mg/L and FC < 500 MPN/100 ml) within six months from the date of finalisation of the action plans.

Quality parameter	Standard to be achieved
BOD	3.0 mg/l.
Dissolved Oxygen (DO)	More than 5.0 mg/l.
Faecal Coliform	Less than 500 MPN/100ml.

1.1.1.3 COMPONENTS OF THE ACTION PLAN

As per the directions, the action plan will include components like:

- **Identification of polluting sources, including:**
 1. *functioning/ status of STPs/ETPs/CETPs*
 2. *solid waste management and processing facilities,*
 3. *quantification and characterisation of solid waste,*
 4. *trade and sewage generated in the catchment area of polluted river stretch.*

- **The action plan will address issues relating to:**
 1. *ground water extraction,*
 2. *adopting good irrigation practices,*
 3. *protection and management of Flood Plain Zones (FPZ),*
 4. *rain water harvesting,*
 5. *ground water charging,*
 6. *maintaining minimum environmental flow of river and*
 7. *Plantation on both sides of the river.*

8. *Setting up of biodiversity parks on flood plains by removing encroachment shall also be considered as an important component for river rejuvenation.*
9. *The action plan should focus on proper interception and diversion of sewage carrying drains to the Sewage Treatment Plant (STP) and*
10. *Emphasis should be on utilization of treated sewage so as to minimize extraction of ground or surface water.*

Other directions:

- *The RRC will have a website inviting public participation from educational institutions, religious institutions and commercial establishments. Achievement and failure may also be published on such website. The Committee may consider suitably rewarding those contributing significantly to the success of the project.*
- *The RRCs will have the authority to recover the cost of rejuvenation in Polluter Pays Principle from those who may be responsible for the pollution, to the extent found necessary. In this regard, principle laid down by this Tribunal in order dated 13.07.2017 in O.A No. 200 of 2014, M.C Mehta Vs. U.O.I will apply. Voluntary donations, CSR contribution, voluntary services and private participation may be considered in consultation with the RRC.*
- *The State Pollution Control Boards or other authorities are having funds deposited under the order of the Tribunal besides funds available under Consent Mechanism. The said funds may*

be utilized for the purpose of expenditure for the Committees, including preparation and execution of action plans in accordance with the provisions contained in the Water Act, 1974.

1.1.2.ORDER DATED 19.12.2018

The operative part of this order is reproduced below:

- The SPCBs and Pollution Control Committees of UTs may display the quality of the water of polluted river stretches on their respective websites within one month from today, alongwith action taken, if any, which may be revised every three months. The CPCB may also display the water quality of the river stretches and action/inaction by such States on its websites. It is made clear that BOD will not be the sole criteria to determine whether a particular river stretch is a polluted river stretch. Other parameters including Faecal Coliform (FC) bacteria will also be the criteria for classifying a stretch as polluted or otherwise. CPCB may devise within two weeks a mechanism for classification wherein two criteria pollutants that is BOD and FC shall henceforth be basis of classification in Priority Classes.*
- 15. Any incomplete action plan will be treated as non-compliance. Performance guarantees are to be furnished for implementation of action plans within the above stipulated time to the satisfaction of Central Pollution Control Board in the sum of:*

- (i) Rs. 15 crore for each of Priority I & II stretches*
- (ii) Rs. 10 crore for each of Priority III stretches*
- (iii) Rs. 5 crore for each of Priority IV & V stretches.*

1.2. AGENCIES/ DEPARTMENTS INVOLVED / RESPONSIBLE FOR IMPLEMENTATION OF THE ACTION PLAN

DDA, DJB, Irrigation and Flood Control Dept., DPCC, Forest Dept., PWD, Industries Dept., DSIIIDC, Urban development Department, MCDs

1.3. TIMELINES FOR IMPLEMENTATION OF ACTION PLAN

Hon'ble NGT has directed to achieve the water quality of bathing standard in river Yamuna within 6 months. However, the timelines given by the concerned agencies are falling beyond the six months deadline.

1.4 LIMITATIONS

The task of bringing the BOD of River Yamuna in Delhi to reach within 3 mg/l is a very tough task because of the following reasons:

- (i) There is no flow in the river downstream of Wazirabad during lean season .
- (ii) 10 cumecs of flow is being released by the State of Haryana at Hathankund during lean season. However, most of it evaporates or percolates before it reaches Wazirabad during the lean season.
- (iii) The old waste water treatment plants (WWTPs) of DJB are designed for treating the sewage and bringing down its BOD upto 30 mg/l (as per the prevalent CPCB of those times) and the recent ones are designed for 20 mg/l. Now DJB is constructing the WWTPs for bringing down the BOD upto 10 mg/l with a view to reuse the effluent.

The work of upgradation of treatment quality of some of the major WWTPs is also being taken up by DJB.

(iv) As of now ,against the desired capacity of about 720 MGD, DJB has installed capacity of 607.2 MGD against which the utilisation is around 460 MGD. DJB is in process of installing the desired capacity in another 3 - 4 years.

(v) Here it is pertinent to mention that even if DJB treats the entire sewage being generated in the city, the BOD levels of the treated effluent are likely to be on an average around 15-20 mg/l .This at best can result in an incremental change/ improvement in the present quality parameters of river flow since **there are some major drains such as Badshahpur drain, Sahibabad drain etc. which bring seemingly untreated sewage from Haryana and Uttar Pradesh and the same goes directly to river Yamuna within the territory of Delhi.**

(vi) Thus, in absence of any environmental flow in the river at present, there is no scope for any dilution downstream of Wazirabad. In the present scenario, therefore, there seems to be no possibility of achieving a BOD level of 3mg/L (Bathing Standards) .

(vii) Now, the Upper Yamuna River Board (UYRB) needs to look into this aspect and find ways to ensure sufficient environmental flow downstream of wazirabad during the lean season of 8 - 9 months so that with adequate dilution , the BOD levels of the river can be brought down to desired levels i e 3 mg/ l. The present environmental flow of 10 cumec is grossly insufficient and needs to be increased manifold after a detailed study of all the related factors for arriving at the required dilutions.

2. RIVER YAMUNA

2.1. BACKGROUND, FLOW IN YAMUNA AND VARIOUS SOURCES OF POLLUTION

Yamuna, a major tributary of river Ganga, is a sacred river and supports the livelihoods of millions of people in its basin states. In order to fulfil the growing needs of drinking water and irrigation, several large dams and barrages have been built which divert large volumes of water from the river as it runs its course through the states of Uttarakhand, Haryana, the National Capital Territory of Delhi and Uttar Pradesh. In Delhi the river is virtually reduced to a trickle and remains completely dry in stretches for almost nine months of the year.

Although the Yamuna River flows only for 54 KM from Palla to Badarpur in Delhi, the 22 KM stretch from Wazirabad to Okhla, which is less than 2% of the river length, accounts for about 76% of the pollution load in the river. During the dry season, spreading over nearly nine months of the year, the river has no fresh water downstream of Wazirabad and the only flow available is sewage, both treated and untreated, flowing through 18 drains that join the river Yamuna during its journey through Delhi. Fig. 1 depicts the flow path of river Yamuna in Delhi.

Yamuna is a perennial river, however, there is no flow in the river downstream of Wazirabad during lean season. 10 cumecs of flow is being released by the State of Haryana at Hathnikund during lean season. However, most of it evaporates or percolates before it reaches Wazirabad during the lean season. Wazirabad discharge graph with data may be seen in Fig. 2.

And, 3911 MLD of sewage (both treated and untreated) is released into the river with a BOD level in excess of 30 mg/L and DO virtually zero for most part of the year, there is no scope for any dilution. In the short and medium term, therefore, the task of achieving a BOD level of 3 mg/L for a C Class river as categorized by the CPCB is going to be very tough and also may not be accomplished in merely six months time.

2.2. POPULATION OF DELHI AND WATER CONSUMPTION

Population of Delhi is 18 Million. Half the population lives without sewerage. There is absence of sewer network in unauthorised colonies and slums. There is population of 40 lakh in 1797 unauthorised colonies and the population is growing.:

As per Delhi Jal Board (DJB) estimates, total Water consumption is 900 MGD (4086 MLD) from both surface and ground water sources. And, as per DJB report Total Sewage generation is 720 MGD (3268 MLD) reckoned at 80% of the fresh water used.

Large volumes of treated /untreated sewage and industrial effluent are discharged into the river first from townships in Haryana and Uttar Pradesh and later through 18 drains within Delhi. About 80% source of water pollution in river Yamuna is domestic sewage flow through drains from authorized / unauthorized areas.

The other source of pollution like dairy operation, open defecation, dumping of solid waste including puja material, effluent from hotels, hospitals and industries contribute to about 20% of the pollution in river Yamuna. Various sources of pollution in river Yamuna in Delhi are also

tabulated in Table 1.

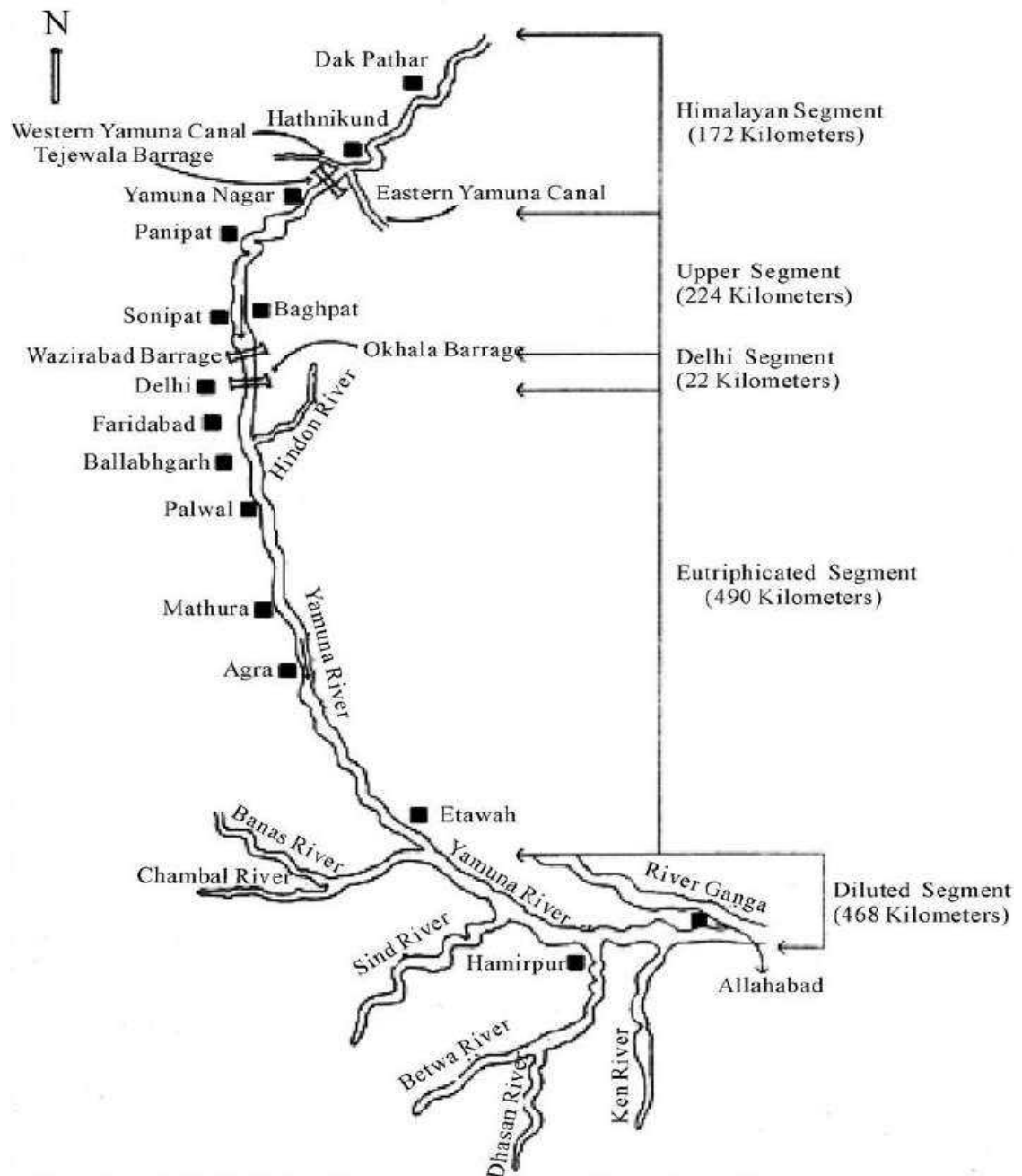


Fig. 1: River Yamuna in Delhi

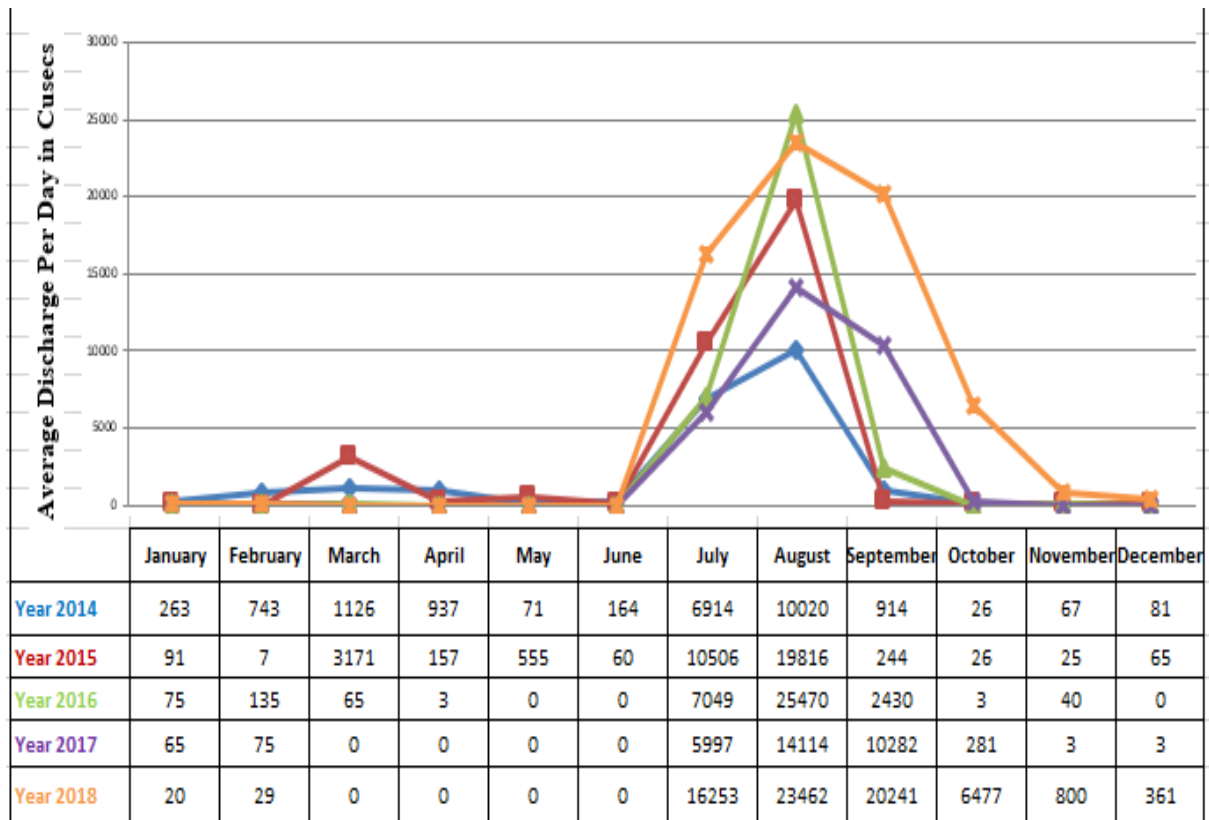


Fig. 2 : Wazirabad discharge graph with data

3. SOURCES OF RIVER YAMUNA POLLUTION

Table 1: Various sources of pollution, location of such point sources of pollution and nature and extent thereof :-

Source	Location	Nature	Extent of Pollution
Sewage from Domestic Sector including Unauthorised Human Settlement /Commercial Centres	Residential / Commercial Areas	Organic matter , Suspended Solids , Detergents , Oil & Grease etc.	More than 80 % of total waste water discharge into river Yamuna
Cattle Wading and Dairy Waste	Rural Areas, All along Yamuna Bank(U/s ISBT Bridge till Okhla Barrage)	Organic matter , Suspended Solids , High Content of Coliform , Oil & Grease etc.	About 20% of total waste water discharged into river Yamuna
Open defecation by unauthorized settlement	all along Yamuna Bank	Organic matter , Suspended Solids , High Content of Coliform etc.	
Dumping of Solid Waste including pooja	At Wazirabad ,ISBT, Loha Bridge, ITO,	Organic matter , Suspended	

material	Nizamudin, Okhla	Solids , etc.	
Hotels / Restaurants /Banquet Halls / /Dhabas / Eating House Establishments	Commercial Areas/ Mixed Land Use	Organic matter , Suspended Solids , Detergents , Oil & Grease etc.	
Hospitals / Health Care Establishments	Commercial Areas/ Mixed Land Use	Organic matter , Suspended Solids , Detergents , Oil & Grease and Inorganic matter etc.	
Industries	28 Approved Industrial Areas , 22 Redevelopme nt Areas and Non Conforming Areas	Organic matter , Inorganic matter including Heavy Metals , Suspended Solids , Oil & Grease etc.	

4. DRAINS FALLING INTO YAMUNA IN DELHI

Drains falling in River Yamuna

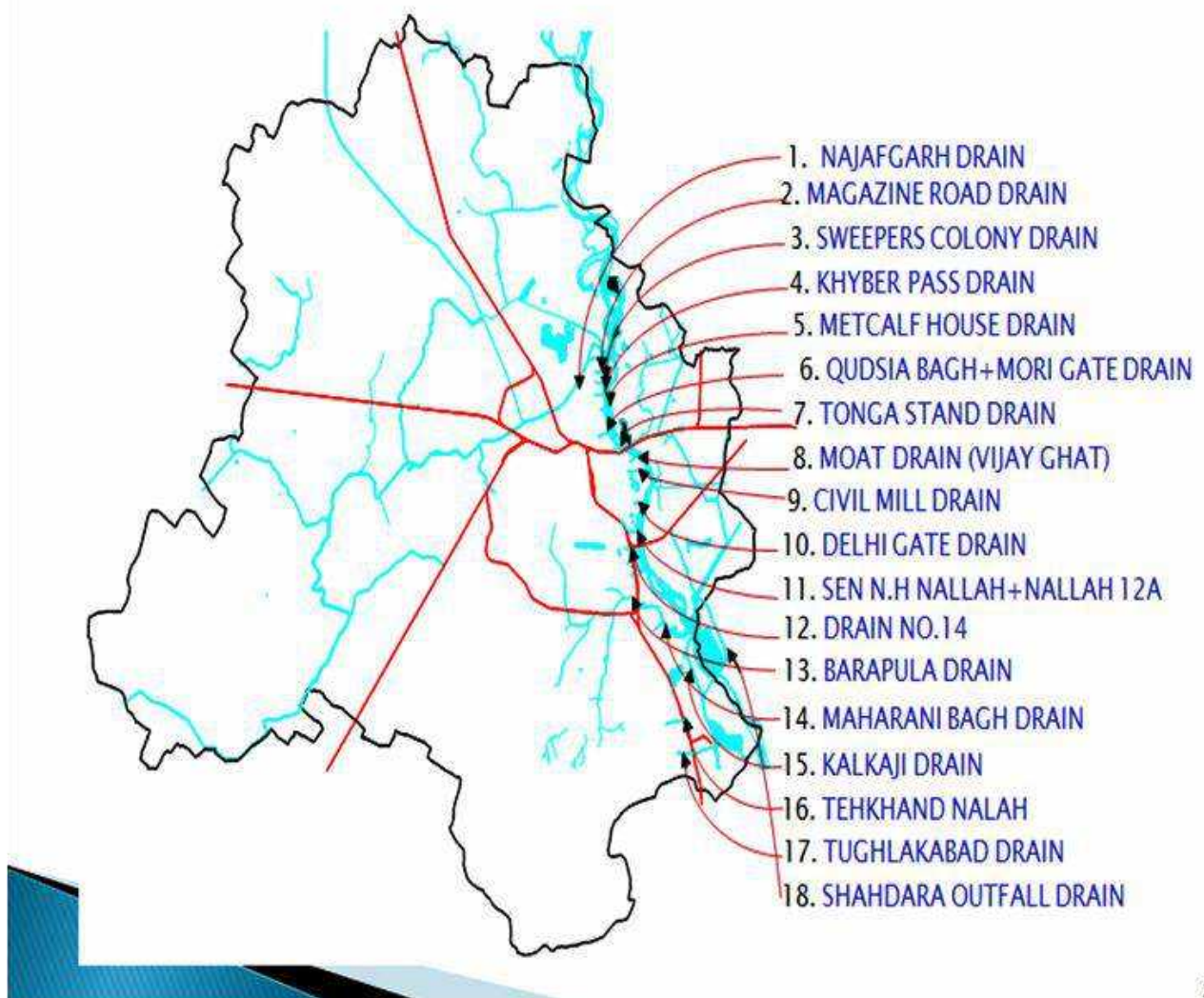


Fig. 3: River Yamuna in Delhi with outfall drains



There are in total 18 drains flowing across the entire expanse of Delhi and falling into Yamuna carrying treated and untreated sewage/ industrial effluents into the river Yamuna. The 18 drains are listed below:

1. Najafgarh Drain
2. Magazine Road Drain
3. Sweepers Colony Drain
4. Khyber Pass Drain
5. Metcalf House Drain
6. Qudesia Bagh + Mori Gate Drain
7. Tonga Stand Drain
8. Moat Drain (Vijay Ghat)
9. Civil Mill Drain
10. Delhi Gate Drain
11. Sen Nursing Home Drain
12. Drain No. 14
13. Barapula Drain
14. Maharani Bagh Drain
15. Kalkaji Drain
16. Tehkhand Nalah
17. Tughlakabad Drain
18. Shahadara Outfall Drain

Fig. 3 depicts the drains falling into river Yamuna.

4.1. **DRAIN-WISE WATER QUALITY STATUS**

Table 2: Drain-wise water quality status from Delhi Pollution Control Committee (DPCC)

<div>  <div> DELHI POLLUTION CONTROL COMMITTEE (Government of N.C.T. of Delhi) 4th Floor, I.S.B.T. Building, Kashmere Gate, Delhi - 110006 Website : http://www.dpcc.delhigovt.nic.in </div>  </div>					
WATER QUALITY STATUS OF DRAIN					
Report No : DPCC/W/D/18-19/217-240					
Date of Sampling 14-01-2019					
S.No	Name of Sample	pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)
General Standard		5.5- 9.0	100	250	30
1	Najafgarh Drain	7.5	118	124	40
2	Metcalf House Drain	7.6	84	96	36
3	Khyber Pass Drain	7.5	96	116	40
4	Sweeper Colony Drain	7.7	56	64	22
5	Magazine Road Drain	7.5	452	244	80
6	ISBT Drain	7.6	180	280	95
7	Tonga Stand Drain	7.6	212	308	105
8	Moat Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
9	Civil Mill Drain	7.7	186	236	80
10	Power House Drain	7.6	104	156	54
11	Sen Nursing Home Drain	7.8	212	276	95
12	Drain No. 12A	NO FLOW	NO FLOW	NO FLOW	NO FLOW
13	Drain No. 14	7.5	76	84	26
14	Barapulla Drain	7.6	292	356	120
15	Maharani Bagh Drain	7.7	156	276	95
16	Kalkaji Drain	NO FLOW	NO FLOW	NO FLOW	NO FLOW
17	Sarita Vihar Drain (Mathura Road)	7.7	104	172	60
18	Tehkhand Drain	7.6	272	404	136
19	Tuglakabad Drain	7.4	528	380	130
20	Drain Near LPG Bottling Plant	NO FLOW	NO FLOW	NO FLOW	NO FLOW
21	Drain Near Sarita Vihar Bridge	7.6	184	248	84
22	Shahdara Drain	7.7	464	352	120
23	Sahibabad Drain	7.7	504	560	190
24	Indrapuri Drain	7.6	236	312	105

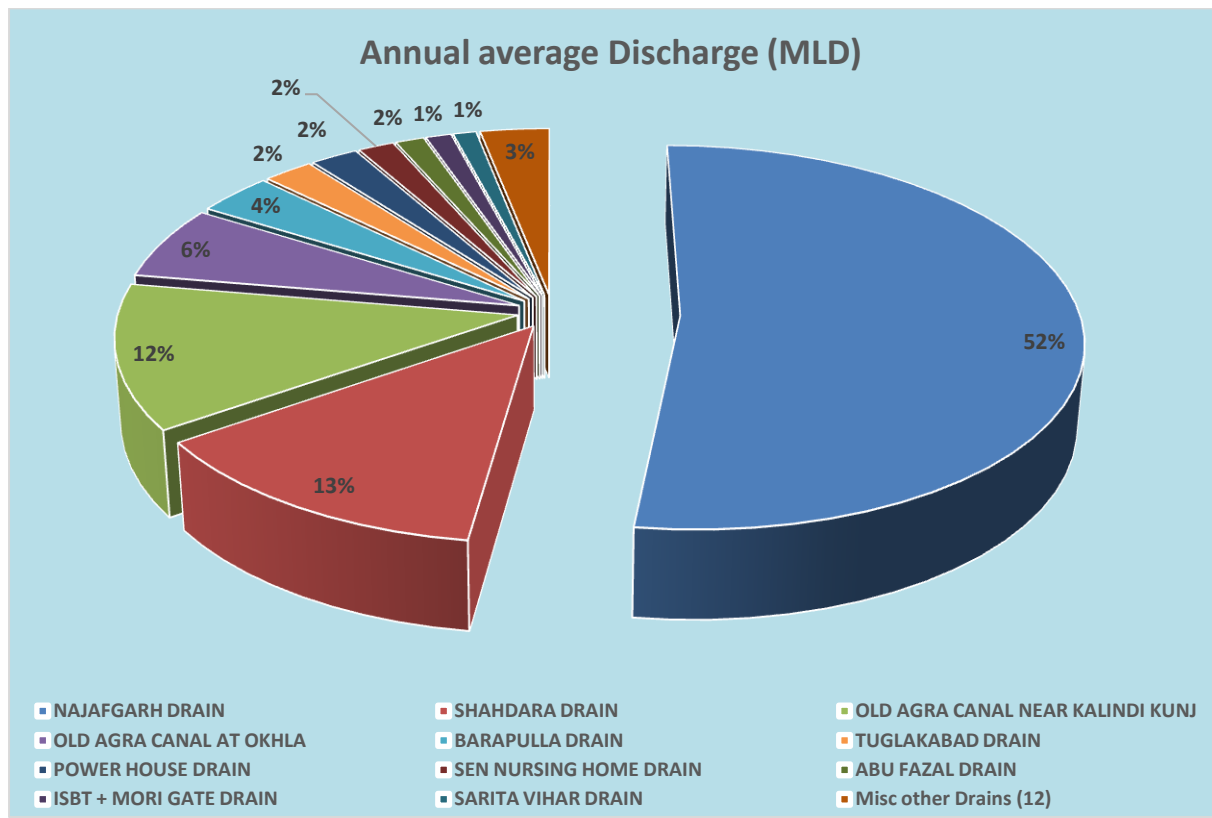


Fig. 4 : Annual average discharge from the drains

Fig. 5 : Annual average BOD load of the drains

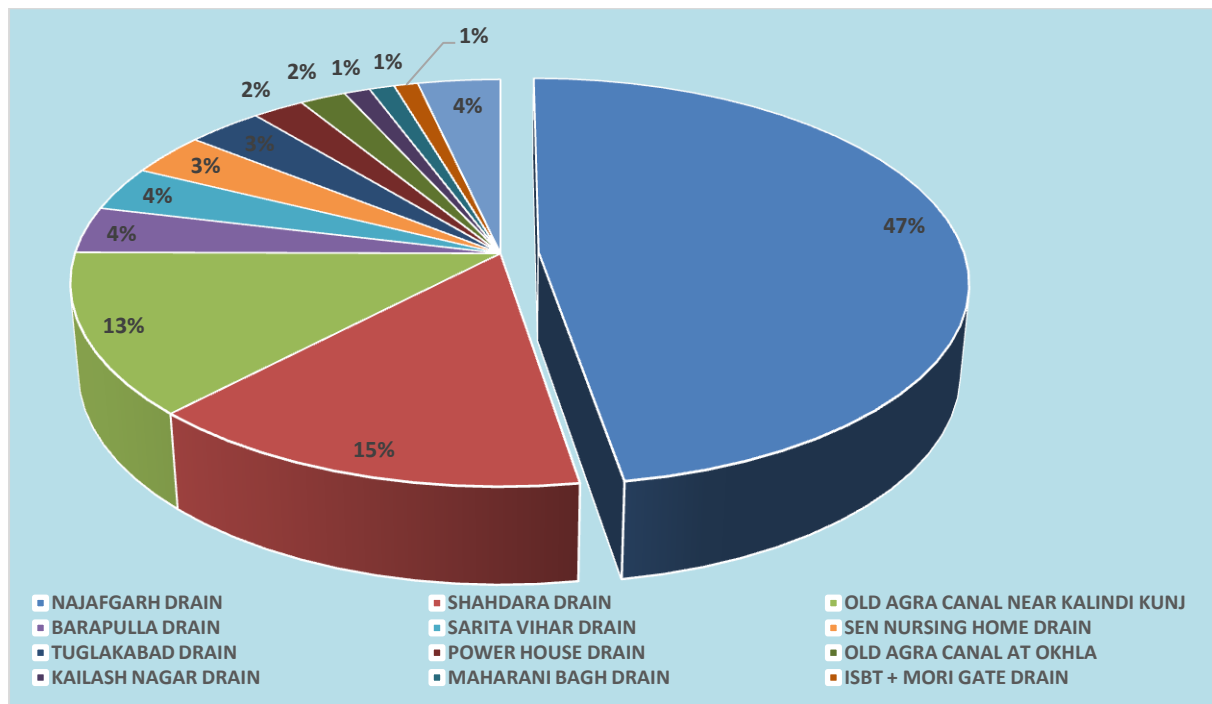


Table 2 gives a Drain-wise water quality status by DPCC. Fig. 4 depicts the annual average discharge from the drains and Fig. 5 : Annual average BOD load of the drains.

5. SEWAGE GENERATION

It has already been discussed in section 2.2 that as per DJB report Total Sewage generation is 720 MGD (3268 MLD) reckoned at 80% of the fresh water used.

6. STPs IN DELHI

The present capacity of all the existing STPs in Delhi is 607 MGD (2756 MLD) against which the sewage actually received at the 34 Numbers of functional STP is 457.75 MGD (2083 MLD) - which means there is only a 75% capacity utilization.

Out of 34 functional STPs, the DJB claims that only two STPs, namely, Keshopur 2 and 3 are not meeting the design parameters. However, as per independent assessment made by the CPCB on the direction of MC, as many as 8 STPs were off line and 15 STPs were found violating one or more general standards .DJB insisted that only one STP which was of very low capacity is not connected online to the servers of CPCB and DPCC.

6.1. LIST OF FUNCTIONING STPS IN DELHI

List of functioning STPs in Delhi as on 31.12.2018 may be seen in Table 3.

Table 3 : List of functioning STPs in Delhi as on 31.12.2018.

S. No.	Name Of STP	Phase-Wise Breakup	Design Capacity (in MGD)	Utilisation (in MGD)	% Utilisation	Design ed BOD/S (inmg./lt.)	Achieved BOD/SS (inmg./lt.)	REMARK S. (WHETHER MEETING DESIGN PARAMETERS)
1.	Rithala	Phase-I	40	26	65	30/50	16.25/28.76	Yes
2.	Rithala	Phase-II	40	40	100	15/20	12.62/17.39	Yes
3.	Okhla	Phase-II	12	7	58	30/50	19/36	Yes
4.	Okhla	Phase-III	37	25	68	30/50	19/24	Yes
5.	Okhla	Phase-IV	45	35	78	30/50	23/35	Yes
6.	Okhla	Phase-V	16	11	69	30/50	19/25	Yes
7.	Okhla	Phase-VI	30	29	97	20/30	8/10	Yes
8.	Kondli	Phase-II	25	17	68	30/50	18/25	Yes
9.	Kondli	Phase-IV	45	40	88	20/30	13/20	Yes
10.	Keshopur	Phase-I	12	11.5	95.8	20/30	5.69/12.7	Yes

							8	
11.	Keshopur	Phase-II	20	16	80	30/50	139.74/25 1.66	No
12.	Keshopur	Phase-III	40	38	95	30/50	55.28/129 .37	No
13.	Yamuna Vihar	Phase-I	10	10	100	30/50	27/44	Yes
14.	Yamuna Vihar	Phase-III	25	13.5	54	20/30	17/27	Yes
15.	Vasantkunj	Phase-I	2	1.25	63	30/50	27/44	Yes
16.	Vasantkunj	Phase-II	3	1.9	63	30/50	27/44	Yes
17.	Mehrauli	Mehrauli	5	3.9	78	20/30	16/25	Yes
18.	Coronation Pilar	Phase-I & II	20	15.5	77.5	30/50	27.24/42. 35	Yes
19.	Coronation Pilar	Phase-III	10	7	70	30/50	23.98/33. 78	Yes
20.	Narela	Narela	10	1.4	14	30/50	29.3/40	Yes
21.	Nilothi	Phase-I	20	2.32	11.5	30/50	34/21	Temporari y out of service for maintenan ce
22.	Nilothi	Phase-II	20	18	90	10/10	4.62/8.3	Yes
23.	Najafgarh	Najafgar h	5	1.9	38	30/50	24.80/45. 07	Yes
24.	Pappankal an	Phase-I	20	16	80	30/50	30/48.42	Yes
25.	Pappankal an	Phase-II	20	19.5	97.5	10/10	4.43/6.01	Yes

26.	Dr.SenNur singHomeNalla	Dr.SenN ursingHomeN alla	2.2	2.32	105	10/15	5/7	Yes
27.	Delhi Nallah	Phase-I	2.2	2.29	104	10/15	7/8	Yes
28.	Delhi Nallah	Phase-II	15	15.28	102	10/10	6/7	Yes
29.	Rohini	Rohini	15	5.6	37	30/50	-	-
30.	Ghitorni	Ghitorni	5	0.39	8	30/50	28/46	Yes
31.	Kapashera	Kapashe ra	5	1.5	30	10/10	-	-
32.	Common Wealth Games Village	Commo n Wealth Games Village	1	0.18	18	02/01	1.6/BDL	Yes
33.	Molar- Bandh	Molar- Bandh	0.66	0.55	83	30/50	25/40	Yes
34.	Chilla	Chilla	9	9	100	10/10	7/8	Yes

- Due to lack of sewerage network here is short falling sewage received at various STPs.
- DJB take sample on daily basis at major plants like Pappankalan, Rithala, Kondli etc and at smaller plants it is done on weekly basis whereas DPCC does it once a month, hence DJB relies more on.

6.2. UPGRADATION/ REHABILITATION OF STPs

Some of the STPs are designed only to achieve BOD/TSS standards of 30/50 mg/L even though DPCC has laid down standards of 10/10 mg/L for the treated waste water in the STPs. The DJB has planned Rehabilitation/ Upgradation of STPs which have either outlived their prescribed life or are otherwise not meeting their design parameters. A total of 11 STPs of capacity 279 MGD are under upgradation or planned to be upgraded as per the details given in Table 4.

Table 4: List of STPs being rehabilitated/ upgraded

S.n o.	Location	Capacity	Target date of completion	Remarks
				On commissioning, STP at S.No. of Table 3 will be de-commissioned
1.	Kondli STP Phase I	10 MGD	March 2020	Are being rehabilitated under YAP-III. On commissioning of Phase –II, S.No. 8 of Table 3 shall be de-commissioned.
2.	Kondli STP Phase II	25 MGD	July 2022	
3.	Kondli STP Phase III	10 MGD	Dec. 2019	
4.	Yamuna Vihar STP Phase II	10 MGD	March 2020	Shall be rehabilitated and upgraded from funding under AMRUT

5.	Okhla STP Phase I	30 MGD	December 2021	Presently the STPs is closed and not in the list of functioning STPs in Table 3. A new STP of combined capacity of 124 MGD shall be constructed in place of Phase-I, II, III & IV under YAP –III.
6.	Okhla STP Phase II	12 MGD	December 2021	Sr.No.2 (Phase-II, III & IV) of Table 3 will be decommissioned. A new STP of combined capacity of 124 MGD shall be constructed in place of Phase-I, II, III & IV under YAP – III. On commissioning of Phase –II, III, IV S.No. 3,4,5 of Table 3 shall be de-commissioned.
7.	Okhla STP Phase III	37 MGD	December 2021	
8.	Okhla STP Phase IV	45 MGD	December 2021	
9.	Rithala Phase I	40 MGD	14.12.2021	Is being rehabilitated under YAP – III. On commissioning of Phase – I, S. No. 1 of Table 3 shall be de-commissioned.
10.	Keshopu r Phase –II	20 MGD	31.03.2020	The appointment of consultant for conditional assessment of existing

11.	Keshopu r Phase -III	40 MGD		<p>equipment of 20 & 40 MGD STP is being processed, who will work out short term and long term measures to improve treated effluent parameters as per design limits and other related works, likely to be appointed within 03 months.</p> <p>DPR, administrative approval will be taken in another 03 months and work is likely to be awarded by July, 2019. For short term measure plant will be ready by March, 2020. For long term measure plant will be commissioned with treated effluent parameter as 10/10 BOD/TSS, micronutrient and pathogen removal by July, 2022. On commissioning of Phase-II, III, S.No.11, 12 of Table 3 shall be die-commissioned.</p>
-----	----------------------------	--------	--	---

6.3. GAPS IN SEWAGE TREATMENT AND THE WAY FORWARD WITH TIMELINES

Table 5 : Status of sewage Treatment in Delhi with Timelines

S.No.	Description	Dec-18	June-19	Dec-19	Dec-20	Dec-21
1	Sawage generated in Delhi (MGD) as per water supply by DJB	720	720	720	720	720
2.	Sewage treatment capacity (MGD)	607	657	657	657	707
3.	Sewage treatment (MGD)	457	651	663	694	709
4.	Capacity utilization (%)	75.3%	99%	100.9%	105.6%	100.3%

Apart from above, as per SMP-2031, 32 Nos of new STPs are to be constructed in outer Delhi area. However, out of 32 STPs, 14 STPs are proposed in Najafgarh area, and in place of remaining 18 STPs, it is proposed to construct decentralized STPs for which land at 46 locations are being allotted by Delhi Govt. The details of decentralized STPs are as follows:

Table 6 : details of decentralized STPs

DETAILS OF DECENTRALIZED PLANTS		Capacity (MGD)
1)	Timarpur Oxidation Ponds	5.50
2)	Decentralised STP in Burari area	4.50
3)	8 nos. decentralized STP in Chatterpur	5.00

	area	
4)	Decentralised STP in Kirari area	20.5
5)	Decentralised STP in Narela, Zindpur&Palla	25.30
6)	Decentralised STP in Bawana&Kanjhawla	44.70
7)	Decentralised STP in Badarpur area	10.00
8)	Decentralised STP in Mundka (part) area	3.30
9)	9+5 STPs in Najafgarh area	39.00
	Total	157.8

STP capacity at Coronation Pillar

Present Capacity 30 MGD (Ph I, 10 MGD– **closed**, Ph II, 20 MGD and Ph III, 10 MGD)

A new Plant of 70 MGD is under construction, thereafter existing 30 MGD will be put out of operation.

6.4. STATUS OF NEW STPs PROPOSED

Table 7 : Status of New STPs proposed

S.N o.	Name of the Plant	Capacity in MGD	Status	Remarks
1.	Tikrikalan	2.7	Notification was issued by Land & building deptt. 28.8.15.	Work of all STPs has already been awarded to M/s L&T on 21-04-

			<p>Payment made in 23 August, 2017.</p> <p>Acquisition of land is in progress.</p>	<p>2017. Likely date of completion of this project is 18 – 30 months. As per directions of Hon'ble NGT all 14 STPs are to be funded b NMCG. So far approval of funding for 7 STPs has been received from NMCG. land at six STP site are available with DJB .Process of allotment /acquisition of land at balance 8 STPs site are still in process.</p>
2	Mitrao	5.6	Land has allotted by Revenue deptt. to DJB.	
3	Dichaokalan	5.6	<p>Partial Gram Sabha Land allotted. After the investigation of Hon'ble NGT a joint inspection with Revenue Department was carried out on 01.12.2017 for balance requirement. A private land was identified adjacent to existing Gram Sabha land. Hon'ble NGT directed Revenue Deptt. to start process of acquisition of land. Case for acquisition of land through Land & Building Deptt of Delhi Govt. is being processed separately.</p>	<p>During the meeting of joint review chaired by Hon'ble Minister of MOWR, RD & GR, Govt. of India and Hon'ble Chief Minister, Delhi held on 18-01-2018, it was apprised by Hon'ble CM that there is a</p>
4	Kazipur	1.1	50% Gram Sabha land available with DJB. For balance pvt. land Notification was issued by	

			Land & building deptt. 28.08.15. Payment made in 17 July 2017. Acquisition of land is in progress.	need to re-examine the justification of the project to avoid any wasteful expenditure.
5	KheraDa bar Extn	0.9	Land taken over by DJB	In pursuance to above, the work to ascertain the quantum of wastewater flow in the command of 9+5 STPs in Najafgarh catchment area was awarded to M/s WAPCOS Ltd. M/s WAPCOS has submitted their report along with recommendations. As per report of M/s WAPCOS , capacity of STPs at Khera Dabar and Zafarpur , where preliminary work were started by DJB (being funding and land were available) , has suggested less then
6	Shikarpur	0.6	Alternate Gram Sabha land under allotment as earlier allotted land was shifted due to public resistance.	
7	Kair	1.1	Notification was issued by Land & Building deptt. 28.08.15 Payment made in 17 July 2017. Acquisition of land is in progress.	
8	Jaffarpur	2.2	Land taken over by DJB	
9	Hasanpur	2.2	Alternate Gram Sabha land under allotment as earlier allotted land was shifted due to public resistance.	
10	Sarangpur	2.2	Land taken over by DJB	
11	Galibpur	1.1	Land taken over by DJB	

12	Tajpurkhu rd	8.0	Notification was issued by Land & building deptt. 28.08.15. Payment made in 20 July, 2017. Case for acquisition of additional 20 Bigha Land is in process. Acquisition of land is in progress.	the proposed capacity of STP as per SMP-2031. Accordingly it is recommended by M/s WAPCOS that STPs at these places be constructed in two modules instead of one in phase-I . Matter was placed before the Board in the meeting held on 27/02/2019 for appraisal of M/S WAPCOS report . Further necessary action shall be taken after receipt of approval from the Board .
13	Goyalavihar (Kakorala)	2.5	Notification was issued by Land & Building Deptt. 28.08.15. Payment made in 17 July 2017. Acquisition of land is in progress.	
14	Badu Sarai (Kanganheri)	1.4	Land taken over by DJB	

7. INTERCEPTOR SEWER PROJECT

- i) Interceptor Sewage Project seeks to trap 108 drains out-falling into Najafgarh, Supplementary and Shahdara drains.
- ii) The Interceptor Sewage Project is expected to be commissioned by June 2019.

- iii) The amount of sewage now being intercepted is 118 MGD. By June 2019 all the 242 MGD of sewage is expected to be trapped and treated.
- iv) With the commissioning of all the six packages of Interceptor Sewage Project, the BOD load reduction in the river will be of the order of 165 TPD. The details of six packages are at **Table 7**.

Table 8 : Details of Interceptor Sewer Project in Delhi with timelines

S. No	ISP Package No	Flow to be trapped (MGD)	Name of STP & Treatment Capacity (MGD)	Capacity Available for Treatment of Intercepted Flow	Flow already trapped and being treated (MGD)	Balance flow targeted to be trapped and treated with timeline (MGD)
1	Package -1	13.80 (Dwarka)	Dwarka-40 MGD	Yes	13.80	Already Trapped
2	Package -2	41.90 (Nilothi)	Nilothi-60 MGD	Yes	41.90	Already Trapped
		22.30 (Keshopur)	Keshopur – 72 MGD	Yes	10.90	11.40MGD BY June 2019
3	Package -3	50.02 (Coronation)	Coronation Pillar- 70	Construction of STP is	-	50.02 MGD by June-

		ion Pillar)	MGD (New) & Existing STP is 30 MGD	in progress and likely to be commission ed (Liquid line) by June-2019		2019
		19.24 (Rithala)	Rithala – 80 MGD	Yes	-	19.24 MGD by June- 2019
4	Packag e-4	13.50 (Rithala)	Rithala – 80 MGD	Yes	6.60	6.90 MGD by June2019
		12.50 (Rohini)	Rohini – 15 MGD	Yes	12.50	Already Trapped
5	Packag e-5	31.90 (Yamun a Vihar)	Yamuna Vihar – 35 MGD & 10 MGD (under Rehabilitatio n of AMRUT)	Yes	-	31.90 MGD by June 2019
6	Packag e-6	37.20 (Kondli)	Kondli-45 MGD new&45 (10+25+10) MGD to be rehabilitated under YAP- III out of	Rehabilitati on of 10 MGD STP is in progress and likely to be commission	23.70	13.50 MGD by Dec- 2019

			which 25 MGD is still in operation. Presently, total operational capacity=70 MGD.	ed (Liquid line) by Dec-2019. So, total capacity in Dec, 2019 will be 80 MGD.		
	Total	242.36 MGD			109.4 MGD	132.96 MGD

8. SEPTAGE MANAGEMENT

The Septage Management Regulations have been notified on 21.11.2018 and the main features of the Regulation are as under:

- (i) Septic Tank Waste (Septage) shall be collected and transported only by vendor(s) having a valid License for this purpose issued by the Delhi Jal Board
- (ii) The Septage shall be transported only in the Vehicles approved for these purposes by the Designated Officer of Delhi Jal Board.
- (iii) The Licensee shall dispose of Septage only at the locations notified by the Delhi Jal Board from time to time.
- (iv) The worker(s) deployed by the Licensee shall be insured to cover compensation to be paid to the victims /their legal.

9. UTILIZATION OF TREATED WASTE WATER

- Out of 459 MGD of treated waste water DJB is mandated to release 267 MGD of treated waste water into Yamuna. However, what is being released through drains is not only the treated waste water but treated waste water mixed with untreated waste water.
- The DJB has plans to release 195 MGD of treated waste water (<10 BOD), after necessary tertiary treatment, at Palla which would be captured at Wazirabad to be used in the Water Treatment Plant. Though this is subject to the approval of the UYRB. Timeline: Next 3 years
- Proposed 10 MGD quantity to be used for Water Bodies, Parks, Groundwater Recharge and use by other agencies in next 2 years
- Proposed use for irrigation in U.P. in next 4 years subject to consent of U.P. irrigation department – Govt. of U.P in U.P. in lieu of raw water supply for proposed 140 MGD WTP at Sonia Vihar.
- DJB and DDA to switch over to the use of treated waste water for gardening and use in Parks in lieu of ground water. DDA will make it mandatory to use treated waste water in all new constructions by providing for dual plumbing. DDA has confirmed that dual plumbing has been made mandatory in all new constructions.
- The DJB has also decided to use some of the treated waste water for recharging the Water bodies which will additionally help recharge ground water and indirectly contribute to lean season flows in the river Yamuna. In all 201 water bodies are proposed to

be rejuvenated by the DJB and another 96 water bodies are proposed to be rejuvenated by the IFCD in technical collaboration with NEERI.

10. MUNICIPAL SOLID WASTE MANAGEMENT

Total MSW generation in in Delhi is **10512** TPD.

10.1. EXISTING TREATMENT AND DISPOSAL FACILITIES AND TOTAL CAPACITY

Table 9 : Brief of Landfill / Dump Sites in NCT of Delhi

S. No.	Name of Landfill / Dump Site	Location	Area (in Acres)	Concerned ULB	Height of Dump Site (Appx) (in Meters)	Legacy Waste (in Million Tonnes)
1	Bhalaswa (Dump Site)	North Delhi	40	North DMC	62	14
2	Ghazipur Dump Site	East Delhi	70	EDMC	65	14
3	Okhla Dump Site	South East Delhi	32	SDMC	55	5
4	Bawana (Engineered SLF)	North Delhi	100	North DMC	--	
	Total					33

10.2 WASTE TO ENERGY PLANTS IN DELHI:

Delhi has 3 Waste to Energy Plants (WTE Plants) of capacity 5250 TPD at 3 different locations in Delhi namely Okhla, Ghazipur and Bawana. one New Waste to Energy Plants is proposed at Tehkhand. Expansion of existing 2 Waste to Energy Plants at Okhla & Ghazipur are also proposed

to increase their capacity. After commissioning of one new WTE Plant and Expansion of existing 2 WTE Plants, capacity of WTE Plants will increase from 5250 TPD to 8950 TPD by the year 2020.

Brief information about operational Waste to Energy Plants in Delhi and proposed expansion is given in the following Table:

S.No	Name of WTE	Existing Capacity		Proposed Expansion for Addl. Waste Processing Capacity (in TPD)
		Waste Processing (in TPD)	Electricity Generation (in MW)	
1	Timarpur Okhla Waste Management Company Ltd., Old NDMC Compost Site, Okhla.	1950	16	500
2	East Delhi Waste Processing Company Ltd., Ghazipur	1300	12	Earlier it was proposed for expansion of additional 1200 TPD but the same has now been dropped and a 2000TPD Integrated Waste Management Facility is proposed at Ghonda Gujran in joint venture with NTPC.
3	Delhi MSW Solutions Ltd., Narela Bawana Road, Bawana	2000	24	----
	Total	5250	52	1700

Table 10: Operational Waste to Energy Plants in Delhi and proposed expansion

10.3 MSW MANAGEMENT (ACTION PLAN WITH TIMELINES) **(as per the available information from the three MCDs)**

10.3.1 REMEDIATION OF EXISTING SLFS

I. Remediation of SLF at Bhalaswa by North DMC

Department of Science and Technology/GOI had constituted a 9 member Scientific Advisory Committee for Landfill Remediation consisting of luminaries from IIT and other fields/Departments. Dr. Manoj Dutta, Professor, IIT Delhi has been engaged by the North DMC as Technical advisor/consultant for slope stabilization, part capping, Methane Gas extraction, Leachate extraction and treatment etc. for remediation of Bhalswa Landfill Site. The report submitted by the Dr. Manoj Dutta, Professor, IIT Delhi on 12.02.2018 for remediation work which comprises in 2 Stages,

Stage (A) : Investigation and design of the project

Stage (B): Execution of project

Timeline proposed for remediation/execution of the Bhalswa Landfill Site :- 31/03/2020

II. Remediation of SLF at Ghazipur by East DMC

Extraction of landfill gas in association with GAIL. 35 Lac landfill gas already extracted and flared, thereby reducing green house emission in

atmosphere. Now the Methane concentration in extracted landfill gas has gone considerably down. However, to reach at nil level it will take further longer period, as biodegradation rate goes down.

Memorandum of Association (MoA) with NHAI to use segregated useful material for road construction (65-70%). Once successful, the entire landfill can be reclaimed within two years. The reclaimed land could be used for setting up a modern facility to cater future needs of waste processing and disposal. However, NHAI is reluctant to undertake the reclamation project envisaged under the MoA.

A pilot project of 200 TPD legacy waste with zero waste technology was awarded on 03.08.2018 for one year to be evaluated by the experts. The agency is in process of obtaining environmental clearances but till date the same has not been granted by MoEF GOI. On successful evaluation of the technology the capacity will be enhanced to 1500 TPD for 20 years.

Department of Science and Technology (DST) constituted "Scientific Advisory Committee which recommended slope stabilization on one side of the SLF. Tender was called but the same could not be awarded due to single tender and high rates. The tender were again called and two bids have been received which are under evaluation.

The matter has also been discussed with Prof. Vijay Raghvan, Principal Scientific "Advisor to GOI for a pilot on the line of reclamation and proposal is still awaited.

However in accordance advice of IIT Delhi, EDMC has initiated the Slope stabilization of Ghazipur land fill site parallel to hindon canal side for which tenders were called and is in process of negotiation with the L 1 vendor and the work will be awarded after expiry of model code of conduct subject to availability of funds. EDMC has already taken up with

UD / DDA for 94.00 Crore. So far sanction of fund under UDF has not been granted despite repeated reminders under the signature of Commissioner EDMC.

In addition NEERI is engaged by DST for detailed investigation, study and monitoring issue of landfill fire at Ghazipur for three years.

III. Remediation of SLF at Okhla by South DMC

- Under the guidance of IIT (Delhi) work of remediation started in January, 2018
- Work requires flattening of slopes and providing drainage arrangement.
- Heavy duty machines such as Bulldozers (04 Nos.) and Excavators (05 Nos.) were deployed
- As on date 40-50% slope correction work is completed and complete slope correction by June, 2019.
- Due to non availability of alternate site for dumping, about 1800 MTs of Municipal Solid Waste is being dumped at Okhla dumpsite every day.
- The work on engineered landfill site in close vicinity measuring 32 acres will start shortly.
- Environmental clearance granted by MoEF&CC, Gol on 29/10/18.
- Application for grant of consent to establish (CTE) submitted to DPCC, CTE yet to be received.

10.3.2 WASTE TO ENERGY PLANTS (EXPANSION AND NEW PROPOSED) + other decentralized waste management options WITH TIMELINES

SOUTH MCD

- **500 TPD expansion at Okhla (Env. Clearance under process) + 2000 TPD New at Tehkhand (by March 2020)**

- Four compost plants of (1 TPD)

Two plants commissioned.

Two plants likely to be commissioned by 15/5/2019

- Four Bio-methanation plants (5 TPD).

One plant commissioned

One plant likely to be commissioned by 30/4/2019

Two plants likely to be commissioned by 31/5/2019

LOA for establishment of 02 Nos. of 200TPD Bio-gas plants (to process Cattle dung and vegetable waste) at Nangli Dairy and Goyla Dairy colony Najafgarh issued on 22.10.2018. These plants are likely to be commissioned on BOT basis by June, 2020.

NORTH MCD

- North DMC has taken up to set up following decentralized processing of bio-degradable waste under UDF:--

- **Accelerated Composter/Bio-Methanisation/Plant 1 TPD capacity, 6 nos.:-** Lowest bidder is M/s. Alfa-Them finalized through GeM. Work Order issued on 05.06.2018. The civil work in progress & the plant is likely to be commissioned by 30.06.2019.
- **Bio-methanisation: Plant 5-TPD capacity 4 nos.:-** Work order issued on 21.08.2018. The work is in progress & the plant is likely to be commissioned by 30.06.2019.
- **Bio-methanisation Plant of 200 TPD Capacity based on cow dung/bio-degradable at Bhalswa Dairy.**

Tender invited on 03.05.18. Case is under approval of House (Corporation) for Rate and Agency. Target date is 31.03.2020. However, anticipated approval from Hon'ble Mayor has been obtained on 13.12.2018. The LOA issued on 14.12.2018. The plant is likely to be commissioned by 31.03.2020.

EAST MCD

- Earlier 1200 TPD expansion at Ghazipur was proposed by East MCD. IL&FS was engaged for this task of expanding the capacity of plant from 1300 to 2500 TPD. However, due to some internal reasons the company could not be able to expand the capacity of the plant and the same has now been dropped. Instead, DDA has recently allotted 42.5 acres land at Ghonda Gujran for development of integrated Solid Waste Management processing and disposal facility. The facility shall consist of-Pre-Processing facilities for MSW, Bio-Methanation Plant, Construction and Demolition (C&D) Plant and Power Plant alongwith value added product plant from rejects/residue.

EDMC has signed an MoU for setting up a joint venture company with NTPC for development of integrated Solid Waste Management Facility of 2000 TPD capacity which will be able to process remaining entire Solid Waste generated in EDMC area targeting almost zero residue and resulting in minimal/ negligible disposal of garbage at landfill. This facility will be developed at Ghonda Gujran. After signing of Joint Venture Agreement, the JV will be required to obtain environmental clearances and other statutory clearances which would take approximate six months time and development of facility will take another one & half year thereafter facility will be operational.

- **Decentralized Waste Processing Facilities –East MCD**

145 TPD as decentralized plant (30.06.2019)

With the help of Urban Development fund from Govt to the tune of Rs 70 crores, EDMC has installed decentralized Waste Management Facilities at various places, 10 nos, of 1 TPD Composters are being installed across EDMC. 2 such 1 TPD accelerated in-vessel composters have already been commissioned and rest 8 are at advance stage of completion.

2 nos. of Bio-mechanization plants of 5 TPD capacity each are also near commissioning stage.

All the above decentralized plants are expected to be operational by 30.06.19. The main reason in delay of execution of work is public resistance based on NIMBY.

We are also in process of establishing 100 TPD Biogas plant at Ghazipur. Clearance from PESO alongwith CTE is awaited.

10.4. PREVENTION OF DUMPING OF SOLID WASTE IN THE DRAINS :

For preventing the dumping of solid waste in the drains, all the concerned Departments / Agencies have been directed vide order dated 09.01.2019 of Chief Secretary and Order Dated 15.01.2019 of UD Department, GNCTD as following :

- i. All field officers of North DMC, East DMC, South DMC, New Delhi Municipal Council, Delhi Cantonment Board, Delhi Urban Shelter Improvement Board (DUSIB), Delhi Jal Board(DJB), Public Works Department (PWD), GNCTD & Irrigation & Flood Control Department (I&FC), GNCTD and Delhi State Industrial and Infrastructure Development Corporation (DSIIDC), comprising of Executive Engineer (EE)/ Assistant Engineer (AE)/ Junior Engineer (JE) are to ensure that environmental compensation of Rs. 50,000/- be levied on those found dumping Solid Waste into drains in their respective jurisdiction and in respect of those drains being maintained by their respective Urban Local Body (ULB)/ Department / Organization. The levy of environmental compensation on the defaulters will be the prime responsibility of the EE/AE/JE of the concerned ULB/ Department / Organization which is responsible for maintaining the said drain.
- ii. In addition to this, appropriate action as per provisions of Delhi Municipal Corporation Act 1957 / New Delhi Municipal Council Act, 1994, Cantonment Act 2006, Solid Waste management Rules 2016 and Solid Waste Management Bye-Laws framed by respective Urban Local Body in exercise of powers under Solid Waste Management Rules, 2016 will also be initiated for

challenging the prosecuting of the defaulters by the EE/AE/JE of the concerned Urban Local Body.

- iii. This action needs to be taken in respect of all drains owned / maintained by the respective Urban Local Body / DJB/ DSIIDC/ PWD/ I&FC / DUSIB etc.
- iv. The Executive Engineer of the DSIIDC, PWD, DJB I&FC and DUSIB who is responsible for maintaining the said drain shall liaise on a regular basis with the concerned Executive Engineer of the ULB to ensure proper and regular action.
- v. Negligence on the part of individual officer in enforcing the above instructions shall attract disciplinary proceedings. The Executive Engineer in-charge of maintenance of that particular section of the drain of the DJB/PWD/I&FC/DUSIB and DSIIDC and the area Executive Engineer of the concerned Urban Local Body would be held jointly accountable in case Solid Waste is found dumped in the drain and / or on its embankment.

11. INDUSTRIAL AREAS LOCATED IN DELHI WITH NO. OF INDUSTRIES IN EACH

In 28 industrial areas of Delhi there are 26,470 industrial units.

11.1. NO. OF INDUSTRIES HAVING CAPTIVE ETPS AND THEIR TREATMENT CAPACITY IN MLD

A total of 2388 ETPs are installed in various industrial units with a total capacity of 37.0510 MLD

11.2 NO. OF CETP'S AND THEIR TREATMENT CAPACITY

- Total 13 CETPs of 46.7 MGD capacity are connected with 17 approved industrial areas.
- 11 approved industrial areas are not connected to CETPs as they are not generating substantial liquid waste.

Table 11: Details regarding CETPs in Delhi

S.N o	Name of CETP	Industrial Areas connected with CETP	Installed Capacity (in MLD)	Average Flow (in MLD)
1	JhilmilCETP	Jhilmil and Friends Colony Industrial Areas	16.8	5.5
2	Badli CETP	Badli Industrial Estate	12	1.5
3	Mayapuri CETP	MayapurilIndustrial Area	12	3.7
4	Mangolpuri CETP	MangolpurilIndustrial Area	2.4	2.2
5	Wazirpur CETP	WazirpurIndustrial Area	24	2.2
6	Nangloi CETP	Nangloi&Udyog Nagar Industrial Areas	12	2.8
7	SMA CETP	SMA, RajasthaniUdyog Nagar & SSI Industrial Areas	12	1.4
8	Okhla CETP	Okhla Industrial Area	24	3.7
9	Narela CETP	Narela Industrial Area	22.5	6.0

10	Bawana CETP	Bawana Industrial Area	35	19.0
11	Naraina CETP	Naraina Industrial Area	21.6	4.3
12	GTK Road CETP	GTK Road Industrial Area	6	2.5
13	Lawrence Road CETP	Lawrence Road Industrial Area	12	1.2
		Total	212.3 MLD (46.7 MGD)	56 MLD (12.3 MGD)

All the 13 CETPs are being monitored by DPCC Laboratory on monthly basis and Analysis Reports are placed on the website of DPCC. Inspection of the CETPs are carried out on quarterly basis and deficiencies observed, if any, during the inspections are conveyed to the CETP Societies / Operator for rectification of the deficiencies. CETPs have installed Flow Meter at the Inlet or Outlet of CETP.

DSIIDC is in consultation with NEERI for upgradation of CETPs in Delhi. GIZ (Deutsche Gesellschaft für Internationale Zusammenarbeit) under Sustainable and Environment- friendly Industrial Production (SEIP) (A joint project of MoEF&CC and GIZ)is working on installation of CETP at Patparganj Industrial Area and upgradation of CETPS in Lawrence Road and Mayapuri Industrial Areas in collaboration with DSIIDC.

A Committee comprising of the representatives from CPCB, DPCC, DSIIDC , Industries Department & NEERI has also been constituted by Pr. Secretary cum Commissioner of industries to explore the possibilities of

reuse of treated water of CETPs in various sectors like irrigation and parks. For smooth functioning of CETPs, Department of Industries, Govt. of NCT of Delhi enacted the CETP Act, 2000 and CETP Rules 2001. CETP Societies have responsibility to collect Operation and Maintenance (O&M) charges from the individual units as per the formulas developed by NEERI. CETP Societies have also been delegated powers by Govt. of NCT of Delhi to recover the Operation and Maintenance (O&M) charges as a land revenue.

11.3 On Line Monitoring System (OLMS) :

- All the 13 CETPs have installed Online Monitoring System (OLMS) for the parameters pH, TSS, BOD & COD.
- Out of 42 STPs of DJB, 33 STPs are having Online Monitoring System (OLMS) and domain link has been provided to DPCC and CPCB. However proper linkage is yet to be provided in absence of required server to CPCB.

11.4 OCEMS:

- Only 9 units are required to install OCEMS and all of them have installed the same.

11.5 GAPS IN TREATMENT OF INDUSTRIAL EFFLUENT

Sufficient treatment facility is available with CETPs. The units which are operational in non-CETP industrial areas have individual waste water treatment facilities. However, there are Issue of industries functioning from residential/ non-conforming areas is being monitored by EPCA with

Industries Department, DSIIDC, DMCs and DDA. Additionally, a Monitoring Committee under the chairmanship of Chief Secretary Delhi is also monitoring this and reporting compliance to the Hon'ble Supreme Court in MC Mehta vs UOI in WP© No. 4677 of 1985

12. TOTAL HAZARDOUS WASTE GENERATION IN DELHI

As per DPCC information, total hazardous solid waste generation is :
5829.114 MTA

and

total used oil is generation is 903.625 k l /annum

12.1. STATUS OF TREATMENT STORAGE AND DISPOSAL FACILITY (TSDF) FOR DISPOSAL OF HAZARDOUS WASTE OF DELHI:

Presently there is no TSDF in Delhi.

The task of setting up of TSDF at Bawana has been entrusted to DSIIDC. DSIIDC has confirmed that RFP proposals have been invited and after technical bids are received by 28.02.19, the Hazardous Waste disposal site will be developed in 15 months after bid finalization.

13. PROTECTION OF FLOOD PLAIN & PREVENTION OF ENCROACHMENT :

- a) To Stop dumping of debris on the flood plains, DDA has taken the following action :

Private security has been engaged to stop illegal dumping: -
100 nos. of security guards have been deployed on 05.12.2018
consisting of the following:

- i. 60 Nos. – Responsible for patrolling on the entire stretch of the floodplains
- ii. 20 Nos. – Deployed at the most vulnerable locations of the floodplains (6 no. of entry /exit locations identified at the locations.
- iii. 20 Nos.– For manning the installed 7 MCR/SCR's (3 guards each) for surveillance to view, process, analysis, to issue warning to approaching vehicles through public address system in MCR/SCR and to inform the Police and to alert the patrolling party.

- b) Installation of Electronic Surveillance System :

CCTV cameras have been installed by DDA from Old Railway Bridge to Yamuna Bank Metro Station, Khijrabad and MCRs (1) at Geeta Colony, (2) at Golden Jubilee Park and Khijrabad respectively.

c) Removal of Encroachment from the flood plain :

DDA has informed that 550 nos. Jhuggis/chappers have been demolished and an area of 5500 sqr. mtr. has been freed from encroachment recently. In, all out of 1026 Jhuggis/structures existing of nearly 11.0 acres of land in Okhla, Khijrabad and Jogabai 600 Jhuggis have been removed and 5.00 acres of land has been reclaimed nearly 2.0 acres of land with 150 Jhuggis could not be removed due to stay by Courts. Balanced Jhuggis are proposed to be removed in due course. Although its reported that a lot of resistance is being put up by Jhuggi dwellers the remaining programme is now planned for after Republic Day as the Police said they were committed for the arrangements there.

d) Possibility of Using Technology like Artificial Intelligence, Aerial Mapping Etc. Or Drones to keep a track of quantum and location of debris being dumped is being explored by DDA.

An Electronic Surveillance System with patrolling along with a static party has been deployed by DDA.

For monitoring of encroachments on vacant land using satellite imageries the subject was taken up with ISRO. DDA has reported that an MOU has been signed on 6th July 2018 and will become operational by 06.07. 2019. If successful, will be implemented in monitoring of Yamuna river flood plain.

14. BRIEF ON THE MECHANISM FOR GRANTING GROUNDWATER EXTRACTION PERMISSION IN DELHI AND RAINWATER HARVESTING

Brief on the mechanism for granting groundwater extraction permission in Delhi as per **Groundwater Regulation and Management vide notification dated 12.07.2010** issued under Section 5 of Environment (Protection) Act, 1986. Is as mentioned below:-.

- The notification states that in whole of the NCT of Delhi, no person, group, authority, association or institution shall draw ground water through borewell or tubewell (both new as well as existing and drawing groundwater without permission of Central Ground water Authority) for domestic, commercial, agricultural and or industrial uses without the prior permission of the “**Competent Authority**” i.e. Delhi Jal Board (DJB)/ New Delhi Municipal Council (NDMC), as the case may be. The permission to abstract ground water (new as well as existing borewells/tubewells) is subject to installation of rainwater harvesting and wastewater treatment and its reuse in their process.
- The issue of grant of permission for borewell/tubewell is dealt by Competent Authority through the Deputy Commissioner (Revenue) of each revenue area, GNCTD, who has been appointed as “**Authorized Officer**” for the purpose of regulation

of ground water development and management in the respective revenue areas under the jurisdiction.

- Notification also constitutes **Advisory Committee** in each revenue districts in NCT-Delhi under Chairmanship of the Deputy Commissioner of each district. The Advisory Committee recommends groundwater boring cases to Competent Authority for grant of permission.
- An Advisory Committee in each revenue areas (presently 11) of the National Capital Territory of Delhi is constituted under the Chairmanship of the Deputy Commissioner of each revenue area comprising of the following members:
 - Deputy Commissioner (Revenue), of concerned revenue area : Chairman;
 - Director (Panchayat) : Member;

(Substituted by Block Development Officer vide amendment dated 25.11.2010)

- Chief Engineer nominated by Delhi Jal Board : Member;
- Representative of Central Ground Water Board, New Delhi : Member;
- Representatives of local bodies having jurisdiction over the area : Member;
- Representative of Department of Environment, GNCTD/DPCC : Member
- Representative of reputed NGO in the field of Groundwater Management nominated by the Deputy Commissioner concerned: Member;

- Deputy Commissioner (Revenue) has also been delegated with the power of dealing with other issues such as checking violation, sealing illegal wells etc, including grievance redressal related to ground water, based on the recommendation of the Advisory Committee. All Sub-Divisional Magistrates are authorized officers to take action against violators under section 15 of the (Environment Protection) Act, 1986.
- The Executive Engineer of the Competent Authority, incharge of the concerned area shall recommend the case, based on the facts on the ground, to the concerned Deputy Commissioner (Revenue) of the revenue area who shall issue orders in the light of the recommendations of Executive Engineer of the Competent Authority and the Advisory Committee.
- If the plot size of the building is more than 200 sq. meters, the permission to draw groundwater through borewell or tubewell is subject to the condition that the occupier or owner of the said plot or building shall install rain water harvesting system in such building.

The permission to draw ground water through borewell or tubewell for commercial and or industrial use is subject to the condition that the concerned person or authority shall install the rain water harvesting structure, and shall ensure reuse of the water in horticulture or cooling or toilet flushing, etc after proper treatment of wastewater.

1. Present Status on amendment to groundwater notification:

Groundwater Regulation and Management Notification dated 12th July 2010, as amended to date is being amended in light of submission made by department on simplification to the notification and also mentioned in **Hon'ble NGT order dated 14.08.2018 in OA 175 of 2015 titled "Shailesh Singh vs Hotel Jaypee Vasant, New Delhi and Ors"**.

Meeting held with stakeholders and after detailed deliberations, it was decided to hold the amendment in the Groundwater Regulation and Management Notification dated 12th July 2010, as amended to date, till CGWA issues the Guidelines for extraction of Ground Water and also clarify the applicability of same in respect of Delhi.

2. Cases That Had Been Dealt Before By Department Of Environment Are Mentioned Below:

1. Civil Writ Petition No. 11884-87/2006 filed by Shri Romesh Chopra & Others in the matter of Romesh Chopra & Ors Vs Union of India & Ors before Hon'ble High Court of Delhi seeking resolution of a conflict of jurisdiction between the Central Ground Water Authority (CGWA) and the Delhi Jal Board (DJB) relating the authority to deal with the recharge of ground water and prevent its unlawful extraction, Department of Environment as per direction of Hon'ble LG's Office had filed affidavit in the Hon'ble high Court on 25.5.2010

During the case hearing on 26.5.2010, Hon'ble High Court had directed the department to notify the directions issued on 18.5.2010 for groundwater regulation and management in the Official Gazette. The said directions were issued with approval of Hon'ble Lt. Governor.

Writ petition stands disposed off on 23.02.2011

2. W.P. (C) 11329/2017 titled as "Private Water Suppliers Association Vs GNCTD and ANR" the prayer in the petition sought direction for quashing for the Ground Water Regulation and Management notification dated 12.07.10 notified by GNCTD to strictly adhere to the direction issued by CGWA and de-sealed the water abstraction units of the Petitioner. The writ petition as well as the pending application was dismissed as withdrawn with liberty to file a separate writ petition on behalf of the individual persons/firms whose premises have been sealed.
3. Original Application No. 518 of 2015 titled as "Deepak Enterprises V/s GNCTD & Ors. It has been mentioned in the affidavit that the proposed notification to be issued by CGWA may take some time, therefore, till the proposed notification be issued by CGWA, in NCT of Delhi the existing procedure for issuing permission/NOC as per GNCTD notification dated 12.07.2010 would be continued.
4. Original Application No. 175/2015 titled as "Shailesh Singh V/s. Hotel Jaypee Vasant, New Delhi & Ors.

15. DETAILS OF PLANTATION IN YAMUNA FLOOD PLAINS BY FOREST DEPT.

Department of Forests & Wildlife, GNCT of Delhi has carried out plantations on Yamuna Flood Plains from time to time. The details of land handed over to Forest Department in Yamuna Flood Plains under various schemes for carrying out plantation are as follows:

Garhi Mandu, Sonia Vihar and Chauhan Patti Plantation areas are situated at eastern bank of river Yamuna and cover total area of 961.50 acres. These are under the ownership of DDA and were handed over to Forest Department in phases during the period w.e.f. 1975 to 2003 for plantation purpose. The details of existing plantation at above mentioned locations are as follows:

S.No.	Land details	Area handed over (In hectares)	Year of Handing Over	No. of Plants Planted
1.	Old Garhi Mandu Plantation area	297.60 ha.	1975 - 2003	125000
2.	Sonia Vihar	60.00 ha.	1999 - 2000	38000
3.	Chauhan Patti	27.00 ha.	I&FCD land	30000
	Total area in hectares	384.60 ha		961.50 acres

Land handed over against DPTA projects

As per Delhi Preservation Tree Act, 1994, against the permission for felling one tree, 10 saplings are to be planted as compensatory plantation. In major projects, the user agency has to hand over land for carrying out compensatory plantation. The details of lands handed over by user agency through DDA in Yamuna Flood plains and plantation carried out time to time in these pockets of land are given below.

S.No.	Land details	Area handed over (in hectares)	Year of Handing Over	No. of plants Planted
1.	Shastri Park Bela Farm	9.15 ha.	2014-15	17288
2.	Shastri Park Bela Farm	2.07 ha.	2015-16	2310
3.	Netaji Subhash Chandra Bose Marg	2.8 ha.	2016-17	3000
4.	Garhi Mandu Yamuna Flood plains near III Pushta (Netaji Nagar Project)	14.65 ha.	2018-19	16277
5.	Garhi Mandu Yamuna Flood plains near III PUShta (Netaji Nagar Project)	14.45 ha	2018-19	16056
6.	Garhi Mandu near Usman Pur (Dwarka Convention Centre, DMICDC Project)	20.00 ha	2018-19	22222 nos.
7.	Shastri Park plantation area near old iron bridge (widening of National Highway Dhaula Kuan to end junction on NH-8, NHAI)	21.52 ha.	2018-19	23911 NOS.
		84.64 ha.		211.6

				acress
8.	Garhi Mandu Yamuna Fould plains near III Pushta (Netaji Nagar Project)	7.00 ha.	2018-19	To be done
9.	Garhi Mandu near Signature Bridge (Integrated Exhibition Cum Convention centre at ITPO, ITPO)	17.13 ha.	2018-19	To be done
10.	Garhi Mandu Yamuna flood plains near IInd pushta (Construction of 8 lane of Section NH-44 fro Mukarba Chowk to Delhi Border, NHAI)	19.52 ha.	2018-19	To be done
	Total	43.65		109.13 acres
	Grand Total	128.29 ha.		320.73 acres

Total 128.29 ha. of land has been handed over to Forest Department by different user agencies. The Department of Forest & Wildlife, has already carried out compensatory plantation by planting 101064 plants over 84.64 ha. of land under Delhi Preservation of tree Act 1994. The plantation of 48500 plants on remaining 43.65 ha of land will be carried out by Department of Forests & Wildlife during next monsoon season.

Land handed over against FCA Projects

As per Forest Conservation Act, 1980 the land has to be handed over by user agency against the clearances issued for utilizing Forest area for non-forestry purposes. The details of land handed over to Department of Forests & Wildlife for carrying out compensatory afforestation under Forest Conservation Act, 1980 are given below:

S.No.	Land details	Area handed over (in hectares)	Year of Handing Over	No. of Plants Planted
1.	Shastri park Bela Farm	22.85 ha.	2014-15	36606
2	Yamuna Flood Plains area in between Yamuna Bank Metro Station & Railway Line adjacent to CWG Village	35.73 ha (89.33 acres)	2018-19	To be done
		58.58 ha.		146.45 acres

Total 58.58 ha. of land has been handed over to Forest Department by different user agencies, out of which compensatory afforestation of 36606 plants over 22.85 ha. of land was carried out under Forest Conservation Act, 1980. The plantation of 39700 plants on remaining 35.73 ha. of land handed over in 2018-19, will be carried out by Department of Forests & Wildlife during next monsoon season.

Department of Forests & Wildlife, GNCT of Delhi has taken over total 571.47 hectares or 1428.68 acres of land in Yamuna Flood plains under various schemes and carried out plantation over 492.09 hectares of land. The Department will carry out plantation on remaining 79.38 hectares of land in Yamuna Flood Plains during next monsoon season.

16. RAIN WATER HARVESTING

Directions of Hon'ble NGT in OA No.72/2014 as per order dated 02.12.2015 regarding efficient working of rain water harvesting systems in projects related to construction of flyovers and bridges are already being implemented by the concerned construction agencies and therefore, is an ongoing process.

17. MINIMUM ENVIRONMENTAL FLOW

To assess the minimum required environmental flow of river Yamuna for stretch between Hathinikund to Okhla, a comprehensive study has been assigned to National Institute of Hydrology (NIH), Roorkee by National Mission for Clean Ganga on 24.12.2018.

Time line by April 30, 2019 as given by NIH.

18. ACTION PLAN FOR AERATION / OZONATION OF MAJOR DRAINS WITH I&FC DEPARTMENT WHEREVER FEASIBLE

Description	Engagement of Consultant	Preparation of Detailed Project Report	Approval of Detailed Project Report after incorporating suggestions and	Detail estimate and issuance of A/A & E/S	Tendering process	Tentative date of completion of work

			queries etc.			
Aeration / Ozonation major drains with I&FC Deptt.	30.05.2019	30.11.2019	30.05.2020	30.09.2020	30.11.2020	30.11.2021

19. GOOD IRRIGATION PRACTICES

Farmers are being made aware of the following good irrigation practices for water conservation by Development Department, GNCTD :-

1. Farmers are being advised to adopt inter-cropping and multiple-cropping to get maximum returns per unit of area and per unit of time with optimum use of water.
2. Farmers are being advised to grow crop which requires less water.
3. Farmers are being advised to adopt Sprinkler and drip irrigation system to irrigate their crops for conservation of water.
4. Farmers are being advised to use water, as per crop-wise prevailing package of practices to conserve water.
5. Farmers are being advised to conserve rain water, by adopting deep ploughing and bunding etc. of their fields for conservation of water.

20. ACTION PLAN OF DESILTING OF DRAINS

BY I & FC DEPT. -2019

- I&FC Department is maintaining 57 Nos. drains out of which 15 Nos. drain are major drains. All the major drains have been protected with boundary walls in most of the length on both banks to avoid garbage dumping directly.
- Bridges across these major drains also been provided with steel grill / netting of sufficient height on both side to avoid direct dumping of garbage / MSW into the drains.
- Still the garbage dumping at various points on bank of drains is being done by the local residents, therefore to avoid this 55 Nos. dhalao have already been constructed at banks of I&FC drain by I&FC / respective MCD. During joint inspection with respective MCD it is found that 116 dhalao / collection bin at various location are also required to prevent dumping of malba / garbage / MSW into the drain for which NOC may be issued by the I&FC department to the concerned MCD(s) for taking further necessary action.
- Desilting of all drains is a regular feature and being carried out every year. An action plan of desilting of drain for the year 2019 is given in Table below.

Sl. No.	Name of Drain	Circle/ Division Involved	Date of start of desilting	Target Date of completion of desilting	Remarks

1	Pankha Road Drain	CD-I	15.01.2019	31.05.2019	
2	Palam Link Drain	CD-I	15.01.2019	31.05.2019	
3	Nasirpur Drain	CD-I	15.01.2019	31.05.2019	
4	Palam Drain	CD-I	15.01.2019	31.05.2019	
5	Najafgarh Pond Drain	CD-I	15.01.2019	31.05.2019	
6	Bijwasan Drain (RD 0m to 4200m)	CD-I	15.01.2019	31.05.2019	
7	Shahbad Mohammadpur Drain RD.0m. To RD.225m.	CD-I	15.01.2019	31.05.2019	
8	Mundella Drain	CD-I	15.01.2019	31.05.2019	
9	Trunk Drain No.1	CD-III / CD-IV	15.12.2018	31.05.2019	
10	Shahdara Outfall Drain	CD-III	15.12.2018	31.05.2019	
11	Trunk Drain No.II (RD 0m to 1980m)	CD-III	15.12.2018	31.05.2019	
12	Gazipur Drain	CD-III	15.12.2018	31.05.2019	
13	Shahdara Link Drain	CD-III	15.01.2019	31.05.2019	
14	Bund Drain	CD- IV	15.01.2019	31.05.2019	
15	Karawal Nagar Drain	CD- IV	15.01.2019	31.05.2019	

16	Escape Drain No. I (RD 0m to 2560m)	CD- IV	15.12.2018	31.05.2019	
17	Escape Drain No. II (RD 0m to 480m)	CD- IV	15.01.2019	31.05.2019	
18	Biharipur Drain (RD 0m to 1000m)	CD- IV	15.01.2019	31.05.2019	
19	Relief Drain	CD- IV	-	-	Desilting is not required only floating material is removed under annual contract.
20	Sarita Vihar Drain	CD-V	15.01.2019	31.05.2019	
21	Ali Drain	CD-V	15.01.2019	31.05.2019	
22	Molar Bund Extn. Nallah	CD-V	15.01.2019	31.05.2019	
23	Asola Nallah	CD-V	15.01.2019	31.05.2019	
24	New Drain	CD-VI	15.01.2019	31.05.2019	
25	Burari Creek drain	CD-VI	15.01.2019	31.05.2019	
26	Burari Drain	CD-VI	15.01.2019	31.05.2019	
27	Toe Drain along RME	CD-VI	15.01.2019	31.05.2019	

28	Drain No.6	CD-VI	15.01.2019	31.05.2019	
29	Link drain No. II (Jagat Pur Link Drain)	CD-VI	15.01.2019	31.05.2019	
30	Bawana Escape Drain	CD-VII	15.01.2019	31.05.2019	
31	Bankner Link Drain	CD-VII	15.01.2019	31.05.2019	
32	Naya Bans Link Drain	CD-VII	15.01.2019	31.05.2019	
33	Khera Khurd Link Drain	CD-VII	15.01.2019	31.05.2019	
34	Ghogha Link Drain + New Ghoga Link Drain	CD-VII	15.01.2019	31.05.2019	
35	Sanoth link Drain	CD-VII	15.01.2019	31.05.2019	
36	Nangloi Drain	CD-VII	15.01.2019	31.05.2019	
37	Tikari Khurd Link Drain	CD-VII	15.01.2019	31.05.2019	
38	Khera Kalan link Drain	CD-VII	15.01.2019	31.05.2019	
39	Alipur Link Drain	CD-VII	15.01.2019	31.05.2019	
40	Bawana Drain (RD 0m to 11391m)	CD-VII & VIII	-	-	Desilting is not required. Only floating material is being removed.

41	Mungeshpur drain RD. 0 to 10362m	CD-VIII	20.05.2018	15.06.2018	
42	Bajitpur drain	CD-VIII	-	-	Desilting is not required.
43	Sultanpur drain	CD-VIII	-	-	Desilting is not required. Only floating material is being removed.
44	Madanpur Drain (RD 4100m to 8229m)	CD-VIII	15.01.2019	31.05.2019	
45	Rasoolpur link drain RD oM to RD 750 M	CD-VIII	-	-	Desilting is not required.
46	Katewara link drain	CD-VIII	15.01.2019	31.05.2019	
47	Ladpur link drain	CD-VIII	15.01.2019	31.05.2019	
48	Jat Khore drain	CD-VIII	15.01.2019	31.05.2019	
49	Ranhola Pond Drain	-	-	-	Desilting is not required.
50	Nangal Thakran link drain	CD-VIII	-	-	Desilting is not required.
51	Kirari Suleman Nagar drain (RD 1430m to 7850m)	CD-VIII & XII	15.01.2019	31.05.2019	

52	Jahangirpuri Drain (RD 0m to 3250m)	CD-X	15.12.2018	31.05.2019	
53	Bhupania Chudania Drain RD.0m. To RD.8550m.	CD-XIII	-	-	Desilting is not required.
54	Mundka Drain	CD-XII	-	-	Desilting is not required.
55	Nangli Sakrawati Drain (0m to RD 385m & RD 1712m to RD 2265m)	-	-	-	Desilting is not required.
56	Supplementary Drain	CD-II / CD- IX & CD-XI	15.12.2018	31.05.2019	
57	Najafgarh Drain	CD-I/ CD-II	15.12.2018	31.05.2019	

21. MIN. AND MAX. REQUIRED TIME PERIOD FOR IMPLEMENTATION OF ACTION PLANS

Min 3 Years

Max 5 Years

(excluding timeline for environmental flow requirement)

It is further to be noted that the action plan for Yamuna in Delhi can be successfully implemented to achieve the objectives only when sufficient quantity of water is released from the Hathnikund Barrage and the minimum environmental flow is maintained throughout the year for the 22 km stretch of Yamuna in Delhi, i.e., from Wazirabad to Asgarpur village.

22. TOTAL ESTIMATED BUDGET FOR IMPLEMENTATION OF THE ACTION PLAN

None of the agencies has raised/ informed about any fiscal requirement.

All agencies will execute their part of Action Plan from their internal budget provisions.

23. PROPOSED MECHANISM FOR EXECUTION OF ACTION PLANS

DPCC will monitor the implementation of the action plans/ timelines given by the concerned agencies

24. UPLOADING ON WEBSITE

Office Order for formation of the RRC, the Executive Summary of the Action Plan of Delhi and Minutes of the RRC Meetings have been uploaded on the website of the Department of Environment, GNCTD at link:

<http://www.delhi.gov.in/wps/wcm/connect/environment/Environment/Home/RRC-Delhi/>

This Action Plan will also be uploaded as and when approved by CPCB.

25. AWARENESS ACTIVITIES AND INVOLVEMENT OF CIVIL SOCIETY

S. No.	Action Point	Agencies	Target Date
1.	Identification of location of receptacles for the	South DMC, North DMC, East	04.04.2019

	collection of Pooja Samagri at the Yamuna Bridges in Delhi.	DMC.	
2.	Setting up of bins at the identified locations	South DMC, North DMC, East DMC.	10.04.2019
3.	Providing signage message to the PWD/MCDs for the information of the Public.	DPCC / Department of Environment	10.04.2019
4.	Installation of signages at appropriate locations at Yamuna Bridges in Delhi for public awareness.	PWD	15.04.2019
5.	Publicity campaign for mass awareness (News papers/FM Radio)	Department of Environment / DPCC	10.04.2019
6.	Wetland visits by students and nature lovers	Department of Environment and DPGS	To be initiated on 15.04.2019 and to be continued thereafter.
7.	Exhibitions and cultural events related to Yamuna river	Department of Environment / DPCC	15.04.2019
8.	Funds arrangement for above Action Points	DPCC.	As per request of concerned Department/Agencies

Department of Environment, Government of NCT of Delhi

6th Level, C-Wing, Delhi Secretariat, I.P. Estate, New Delhi- 110002

Telefax: 23392029

F.12 (585)/Env/NGT/OA 673 of 2018 16151-6155

Dated: 22/10/18

OFFICE ORDER

Sub: Constitution of River Rejuvenation Committee (RRC) in respect of Delhi in Compliance to the directions of the Hon'ble NGT contained in the order dated 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB"

The directions of the Hon'ble Tribunal as contained in the above order said are reproduced below:

"50. In view of above, we consider it necessary to issue the following directions:

- i) All States and Union Territories are directed to prepare action plans within two months for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e BOD < 3 mg/L and FC < 500 MPN/100 ml) within six months from the date of finalisation of the action plans.*
- ii) The action plans may be prepared by four-member Committee comprising, Director, Environment., Director, Urban Development., Director, Industries., Member Secretary, State Pollution Control Board of concerned State. This Committee will also be the Monitoring Committee for execution of the action plan. The Committee may be called "River Rejuvenation Committee" (RRC). The RRC will function under the overall supervision and coordination of Principal Secretary, Environment of the concerned State/Union Territory.*
- iii) The action plan will include components like identification of polluting sources including functioning/ status of STPs/ETPs/CETP and solid waste management and processing facilities, quantification and characterisation of solid waste, trade and sewage generated in the catchment area of polluted river stretch. The action plan will address issues relating to; ground water extraction, adopting good irrigation practices, protection and management of Flood Plain Zones (FPZ), rain water harvesting, ground water charging, maintaining minimum environmental flow of river and plantation on both sides of the river. Setting up of biodiversity parks on flood plains by removing encroachment shall also be considered as an important component for river rejuvenation. The action plan should focus on proper interception and diversion of sewage carrying drains to the Sewage Treatment Plant (STP) and emphasis should be on utilization of treated sewage so as to minimize extraction of ground or surface water. The action plan should have speedy, definite or specific timelines for execution of steps. Provision may be made to pool the resources, utilizing funds from State budgets, local bodies, State Pollution Control Board/ Committee and out of Central Schemes*

o/c

- iv) *The Action Plans may be subjected to a random scrutiny by a task team of the CPCB.*
- v) *The Chief Secretaries of the State and Administrators/ Advisors to Administrators of the Union Territories will be personally accountable for failure to formulate action plan, as directed.*
- vi) *All States and Union Territories are required to send a copy of Action Plan to CPCB especially w.r.t Priority I & Priority II stretches for approval.*
- vii) *The States and the Union Territories concern are directed to set up Special Environment Surveillance Task Force, comprising nominees of District Magistrate, Superintendent of Police, Regional Officer of State Pollution Control Board and one person to be nominated by District Judge in his capacity as Chairman of Legal Services Authority on the pattern of direction of this Tribunal dated 07.08.2018, in Original Application No. 138/2016 (TNHRC Case).), "Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu case)*
- viii) *The Task Force will also ensure that no illegal mining takes place in river beds of such polluted stretches.*
- ix) *The RRC will have a website inviting public participation from educational institutions, religious institutions and commercial establishments. Achievement and failure may also be published on such website. The Committee may consider suitably rewarding those contributing significantly to the success of the project.*
- x) *The RRCs will have the authority to recover the cost of rejuvenation in Polluter Pays Principle from those who may be responsible for the pollution, to the extent found necessary. In this regard, principle laid down by this Tribunal in order dated 13.07.2017 in O.A No. 200 of 2014, M.C Mehta Vs. U.O.I will apply. Voluntary donations, CSR contribution, voluntary services and private participation may be considered in consultation with the RRC.*

51. We understand that the State Pollution Control Boards or other authorities are having funds deposited under the order of the Tribunal besides funds available under Consent Mechanism. The said funds may be utilized for the purpose of expenditure for the Committees, including preparation and execution of action plans in accordance with the provisions contained in the Water Act, 1974.

52. A copy of this be sent by e-mail to all the concerned i.e. the Ministry of Water Resources, Ministry of Environment, Forest & Climate Change, Ministry of Housing and Urban Affairs, the Niti Ayog, National Mission for Clean Ganga, Central Pollution Control Board, Chief Secretaries of all the States and Union Territories for compliance.

53. The RRCs will send progress reports by e-mail at filing.ngt@gmail.com on or before 15.12.2018.

54. Needless to say, that order of National Green Tribunal is binding as a decree of Court and non-compliance is actionable by way of punitive action including prosecution, in terms of the National Green Tribunal Act, 2010.

55. Put up for consideration of the Report on 19th December, 2018."

Accordingly, as per para 50 (ii), the following four member River Rejuvenation Committee (RRC) is being constituted for Delhi:

1. Director, Department of Environment, GNCTD
2. Director, Department of Urban Development, GNCTD
3. Director, Industries, GNCTD
4. Member Secretary, DPCC

The RRC will function under the overall supervision and coordination of Principal Secretary, Environment of the concerned State/Union Territory.

The committee is to prepare action plans within two months for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e BOD < 3 mg/L and FC < 500 MPN/100 ml) within six months from the date of finalisation of the action plans.

This Committee will also be the Monitoring Committee for execution of the action plan.

Further, the Special Environment Surveillance Task Force as defined in para 50 (vii) of the above stated Hon'ble NGT Order may be constituted by Divisional Commissioner separately. This Task Force will work in co-ordination of the RRC in addition to dealing with the sand mining issues mentioned in para 50 (viii). Copy of order dt. 07.08.2018 of the Hon'ble NGT issued in Original Application No. 138/2016 (TNHRC Case), "Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu case)" is enclosed for kind reference please.

This issues with the approval of the Chief Secretary, Delhi.

Encl.: As above.



S.M. Ali
Spl. Secretary (Env.)

Copy to :

1. Pr. Secretary, Department of Urban Development, GNCTD.
2. Pr. Secretary & Commissioner, Department of Industries, GNCTD.
3. Member Secretary, DPCC.
4. Director (Env.), Department of Environment.

Copy for information to:

1. Chairman, Central Pollution Control Board.
2. OSD to Chief Secretary, GNCTD.
3. Secretary (Environment)-Cum-Chairman DPCC, Department of Environment, GNCTD.

Department of Environment, Government of NCT of Delhi

6th Level, C-Wing, Delhi Secretariat, I.P. Estate, New Delhi- 110002

Telefax: 23392029

F.12 (585)/Env/NGT/OA 673 of 2018/7318-7354

Dated: 22/11/18

MINUTES OF MEETING

Kindly find enclosed the Minutes of the Second Meeting of the River Rejuvenation Committee (RRC) constituted in compliance to the directions of the Hon'ble NGT dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB" held under the Chairmanship of Secretary (Environment) on 20.11.2018 at Delhi Secretariat, for necessary action please.

Encl. : As above.



(Nigam Agarwal)
Sr. Scientific Officer

Copy to (by e-mail):

1. Sh. S. M. Ali, Spl. Secretary (Env.)-cum-MS (Delhi Pollution Control Committee)
2. Sh. S.S. Gill, Special Secretary, Urban Development Department, GNCTD.
3. Principal Chief Conservator of Forests, GNCTD.
4. Dr. Anil Kumar, Director, Department of Environment, GNCTD
5. Sh. Pradeep Khandelwal, Chief Engineer, East MCD
6. Sh. T.P Singh, Dy. Commissioner, Industries Department, GNCTD.
7. Ms. Poonam Dewan, Addl. Commissioner (Landscape), DDA.
8. Sh. M.M. S. Dahiya, SE, SDMC.
9. Sh. Rajesh Khanna, SEE, NDMC.
10. Sh. Amar Singh, North DMC.
11. Sh. Y.K. Sharma, SE, I&FC, GNCTD.
12. Sh. O.P. Shrivastav, CE, I&FC, GNCTD.
13. Sh. Sanjay Saxena, CE, I&FC, GNCTD.
14. Sh. M.K Hans, SE, DJB.
15. Sh. Mukul Bhandula, SE, DJB
16. Dr. M. Dwaraka Nath, SSO, Department of Environment, GNCTD.
17. Sh. D. K. Singh, SEE, DPCC.
18. Dr. Nandita Moitra, Senior Scientist, DPCC.
19. Sh. Indraj Meena, DD (H), DDA
20. Sh. R.K. Tripathi, EE, PWD, GNCTD.
21. Sh. Manish Agarwal, EE, I&FC, GNCTD.
22. Sh. Gajender Tomar, EE, DJB
23. Sh. Sanjay Vats, EE, DPCC
24. Dr. Rakesh Kumar, AEE (M), DSIIDC.

Contd...

Copy for information to (by e-mail):

1. Chairman, Central Pollution Control Board.
2. OSD to Chief Secretary, GNCTD.
3. PS to Vice Chairman, DDA.
4. PS to Pr. Secretary, PWD, GNCTD.
5. PS to Secretary, Irrigation and Flood Control Department, GNCTD.
6. PS to Commissioner (Industries), Industries Department, GNCTD.
7. PS to MD, DSIIDC.
8. PS to CEO, DJB.
9. PS to Commissioner North Delhi Municipal Corporation.
10. PS to Commissioner South Delhi Municipal Corporation.
11. PS to Commissioner East Delhi Municipal Corporation.
12. PS to Pr. Secretary (Urban Development), Urban Development Department, GNCTD.
13. PS to Pr. Secretary (Environment & Forests) –cum- Chairman (DPCC).



(Nigam Agarwal)
Sr. Scientific Officer

MINUTES OF THE 2nd MEETING OF THE RIVER REJUVENATION COMMITTEE (RRC) CONSTITUTED AS PER THE DIRECTIONS OF THE HON'BLE NGT DT. 20.09.2018 PASSED IN OA NO. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY TITLED "MORE RIVER STRETCHES ARE NOW CRITICALLY POLLUTED: CPCB" CONVENED UNDER THE CHAIRMANSHIP OF PRINCIPAL SECRETARY (ENVIRONMENT), GNCTD ON 20.11.2018 AT DELHI SECRETARIAT.

The 2nd Meeting of the River Rejuvenation Committee (RRC) constituted in compliance to the directions of the Hon'ble NGT dt. 20.09.2018 **passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY** Titled "More river stretches are now critically polluted: CPCB" was taken by Principal Secretary (Environment) on 20.11.2018.

As per the directions of the Hon'ble NGT, RRC has to prepare action plan within two months for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e BOD < 3 mg/L and FC < 500 MPN/100 ml) within six months from the date of finalisation of the action plans. As per the Hon'ble NGT order, in case of Delhi, the polluted river stretch has been identified from Wazirabad to Asgarpur village (22 km).

Officers from various Departments including Environment, DPCC, Urban Development, Industries, DJB, DSII DC, Irrigation and Flood Control Department, PWD, DDA, North MCD, South MCD attended the meeting.

Record of attendance is **enclosed**.

At the outset, Pr. Secretary (Environment) welcomed all the participants and then requested MS (DPCC) and Director (Env.) to deliberate upon the issue.

Director (Env.) briefed about the discussions held during the 1st RRC Meeting held on 01.11.2018. During the 1st meeting, it was decided that the RRC cannot work without participation of other concerned Departments/ Agencies including, DDA, three MCDs, Irrigation and Flood Control Department, DJB (officers already present), PWD, DSII DC and Forest Department.

As per the directions, the action plan will include components like:

- **Identification of polluting sources, including:**
 1. *functioning/ status of STPs/ETPs/CETPs*
 2. *solid waste management and processing facilities,*
 3. *quantification and characterisation of solid waste,*
 4. *trade and sewage generated in the catchment area of polluted river stretch.*
- **The action plan will address issues relating to:**
 1. *ground water extraction,*
 2. *adopting good irrigation practices,*

Contd...



3. *protection and management of Flood Plain Zones (FPZ),*
 4. *rain water harvesting,*
 5. *ground water charging,*
 6. *maintaining minimum environmental flow of river and*
 7. *plantation on both sides of the river.*
 8. *Setting up of biodiversity parks on flood plains by removing encroachment shall also be considered as an important component for river rejuvenation.*
 9. *The action plan should focus on proper interception and diversion of sewage carrying drains to the Sewage Treatment Plant (STP) and*
 10. *Emphasis should be on utilization of treated sewage so as to minimize extraction of ground or surface water.*
- **The action plan should have speedy, definite or specific timelines for execution of steps.**
 - **Hon'ble NGT has directed RRCs to send progress reports by e-mail at filing.ngt@gmail.com on or before 15.12.2018.**
 - **The matter will be put up for consideration of the Report on 19.12.2018 by the Hon'ble NGT.**

These issues w.r.t. action plan were discussed in the 1st Meeting of RRC and concluded that the proposed Action Plan of RRC is intended to cover all the points that are mentioned in the 'Action Plan' of the Monitoring Committee for Rejuvenation of River Yamuna appointed by the Hon'ble Tribunal vide Order dt. 26.07.2018 in OA 6/2012 and OA 300/2013 and was submitted to Hon'ble NGT on 22.10.2018. A soft copy of this Action Plan was **circulated with the minutes of the 1st RRC Meeting to all concerned by e-mail**. The minutes and this 'Action Plan' were also circulated to all participants including new Departments with the meeting notice for the 2nd RRC Meeting.

The mandate of the Yamuna Monitoring Committee is mentioned in detail in the Hon'ble Tribunal's order dt. 26.07.2018 and covers all the components and is over and above the components to be included in the action plan to be prepared by RRC constituted for Delhi in OA 673/2018.

However, Ms. Poonam Dewan, Addl. Commissioner (Landscape), DDA who is also participating in the meetings chaired by Ms. Shailaja Chandra, informed that DDA has already given their inputs in the Action Plan but still Madam Shailaja Chandra has asked them to include some more additional points. At this Pr. Secretary (Env.) requested her to submit these additional points to RRC also by e-mail at nigam.agarwal@gov.in by 26.11.2018 so that they may be included in the Action Plan.

Certain other issues pertaining to different departments were also discussed. These included, untreated sewage from unauthorized colonies and unsewered areas, on-line

Contd...

Nigam Agarwal

monitoring of STPs, interceptor sewer, CETPs, watering of parks from the nearby existing drains after treatment, plantation along the drains, dredging of drains for debris/ waste and silt etc. and checking throwing of garbage into the drains, implementation of solid waste management bye-laws by the local bodies, etc.

Pr. Secretary (Environment) directed all Officers present from different Departments to **submit their inputs by e-mail at nigam.agarwal@gov.in positively, by 26.11.2018,** regarding the above issues or any other suggestions, if any, for the action plan in addition to what is already covered in the 'Action Plan' already prepared and submitted by the Monitoring Committee for Rejuvenation of River Yamuna to the Hon'ble NGT.

Pr. Secretary (Env.) formed a sub-committee for compilation of the inputs from various Department to be received by 26.11.2018 and incorporation of the same in the already prepared 'Action Plan' by the Monitoring Committee for Rejuvenation of River Yamuna and preparation of the final Action Plan of the RRC. The Sub-Committee to include the following Officers:

1. Ms. Nigam Agarwal, SSO, Env. Department, GNCTD
2. Sh. D.K. Singh, SEE, WMC-II, DPCC
3. Dr. Nandita Moitra, Sr. Scientist (Water Lab.), DPCC
4. Sh. Mukul Bhandula, SE, DJB
5. Sh. Laxmi Narayan, SE, DDA

He directed preparation of the Action Plan at the earliest so that the same may be submitted to CPCB for approval.

In the meanwhile he directed Environment Department to provide inputs to the Law Officer, DPCC who will take necessary action to file an application in the Hon'ble NGT for excluding Delhi from the directions of the Hon'ble NGT dt. 20.09.2018 issued in OA 673/2018.

Meeting ended with a vote of thanks to the Chair.



DEPARTMENT OF ENVIRONMENT, GNCTD

ATTENDANCE SHEET

Date: 20.11.2018/ 11.00 AM

Sub: Second Meeting of the River Rejuvenation Committee (RRC) constituted as per the direction of the Hon'ble National Green Tribunal order dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB"

S.No.	Name & Designation	Organization/ Department	Phone Number	E-mail ID	Signature
1.	Dr. Rambir Singh S.M. Ali, Spl. Secretary - cum- Member Secretary (DPCC)	Pr. Secretary (Env)	in chair		
2.	Dr. Rajesh Kr., AECM	DSIIDC.	9871006453	Smali.india.office@gmail.com	
3.	R.K. TRIPATHI EE	PWD	9868303770	ee.pwd@delhi212@gmail.com	
4.	M. M. S. Darby a. SE	SDMC	8800696683	seienz@gmail.com	
5.	T. K. Sharma SE	IRPC	9958800323	efefei@gmail.com	
6.	Poonam Dewan	DDA Addl. Comm. Landscape	9560264646	poonam.ruby@gmail.com	P. Dewan
7.	Anwar Singh	North DMC	9717707758	ae2mcd@gmail.com	A. Singh
8.	Indraj Meena DDCH	DDA	9899319990	meenaif2013@gmail.com	
9.	O. P. Shrivastava C.E	IRPC	9899260883	ceifcd@gmail.com	
10.	D. K. SINGH, SEE	DPCC	9717593512	dk.singh.dpcc@gmail.com	D. K. Singh
11.	Dr. M. DWARAKANATH SSO	Deputy Env't.	8527411136	dwark920@gmail.com	

DEPARTMENT OF ENVIRONMENT, GNCTD

ATTENDANCE SHEET

Date: 20.11.2018/ 11.00 AM

Sub: Second Meeting of the River Rejuvenation Committee (RRC) constituted as per the direction of the Hon'ble National Green Tribunal order dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB"

S.No.	Name & Designation	Organization/ Department	Phone Number	E-mail ID	Signature
12.	Paryay Exene CE	ITR Deptt	9868261111	ceifed@gmail.com	
13.	Dr Mandita Mishra	OPCC			
14.	Gopender Tomar	D.I.D	9868127408	eeedn2@gmail.com	
15.	Manish Agarwal EE	ITR	9358850103	ifccdi@gmail.com	
16.	M.K. Homb SE(MOI)	DTR	9850291222	djbseww@gmail.com	
17.	T. P. SINGH Dy C.S.	Industries Deptt. GNCTD	9999359117	cominel@nic.in	
18.	Smyam. , SE	DRCC	9717591530	Smyam@gmail.com	
19.	Rajesh Khanna SE(MOI)	N.D.M.C.	8588888980	eelalems@gmail.com	
20.	S.S. Gue Spl Secy	UD	9560235566	splsecy@urbandevelopment@gmail.com	
21.	Nigam Agarwal, SSO	Environment Deptt.	9818288188	nigam.agarwal@gov.in	
22.	Dr. Anil Kumar, Director	Environment Deptt.	9717593505	direw.delhi@nic.in	

Department of Environment, Government of NCT of Delhi

6th Level, C-Wing, Delhi Secretariat, I.P. Estate, New Delhi- 110002

Telefax: 23392029


F.12 (585)/Env/NGT/OA 673 of 2018 /501-543

Dated: 18/01/19

MINUTES OF MEETING

Kindly find enclosed the Minutes of the third Meeting of the River Rejuvenation Committee (RRC) constituted in compliance to the directions of the Hon'ble NGT dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB" held under the Chairmanship of Secretary (Environment) on 17.01.2019 at Delhi Secretariat, for necessary action please.

Encl. : As above.


(Nigam Agarwal)
Sr. Scientific Officer

Copy to (By email):

1. Sh. S.S. Gill, Special Secretary, Urban Development Department, GNCTD.
2. Sh. S. M. Ali, MS (Delhi Pollution Control Committee), Kashmere Gate, Delhi.
3. Principal Chief Conservator of Forests, GNCTD.
1. Sh. Nisheeth Saxena, IFS, Conservator of Forests, GNCTD.
2. Dr. Anil Kumar, Director, Department of Environment, GNCTD
3. Sh. Pradeep Khandelwal, Chief Engineer, East MCD
4. Sh. T.P Singh, Dy. Commissioner, Industries Department, GNCTD.
5. Ms. Poonam Dewan, Addl. Commissioner (Landscape), DDA.
6. Sh. M.M. S. Dahiya, SE, SDMC.
7. Sh. Rajesh Khanna, SEE, NDMC.
8. Sh. Amar Singh, North DMC.
9. Sh. Y.K. Sharma, SE, I&FC, GNCTD.
10. Sh. O.P. Shrivastav, CE, I&FC, GNCTD.
11. Sh. Sanjay Saxena, CE, I&FC, GNCTD.
12. Sh. Sharat Kumar, SE (Env.), DSIIDC.
13. Sh. M.C Ram, SE, DJB.
14. Sh. M.K Hans, SE, DJB.
15. Sh. Mukul Bhandula, SE, DJB
16. Sh. Ashutosh Kaushik, CWA, DJB.
17. Sh. D. K. Singh, SEE, DPCC.
18. Sh. Piar Singh, SE (EMS), EDMC.
19. Sh. Laxmi Narain SE/CC-5, DDA.
20. Sh. Arun Kumar, SE (EMS), EDMC.
21. Sh. Indraj Meena, DD (H), DDA

Contd...

22. Ms. Kawaljeet Kour, Asstt. Director (Planning), Zone-O, DDA.
23. Sh. P.S Pankaj, EE, Water Lab, DPCC.
24. Sh. R.K. Tripathi, EE, PWD, GNCTD.
25. Sh. Manish Agarwal, EE, I&FC, GNCTD.
26. Sh. Gajender Tomar, EE, DJB.
27. Sh. Sanjay Vats, EE, DPCC.
28. Sh. Manoj Kumar, EE (DEMS), North DMC.
29. Sh. Shiv Kumar EE, CD-XIV, I&FC.
30. Dr. Rajesh Kumar, AEE (M), DSIIDC.

Copy for information to (by e-mail):

1. Chairman, Central Pollution Control Board.
2. OSD to Chief Secretary, GNCTD.
3. PS to Vice Chairman, DDA.
4. PS to Pr. Secretary, PWD, GNCTD.
5. PS to Secretary, Irrigation and Flood Control Department, GNCTD.
6. PS to Commissioner (Industries), Industries Department, GNCTD. PS to MD, DSIIDC.
7. PS to MD, DSIIDC
8. PS to CEO, DJB.
9. PS to Commissioner North Delhi Municipal Corporation.
10. PS to Commissioner South Delhi Municipal Corporation.
11. PS to Commissioner East Delhi Municipal Corporation.
12. PS to Pr. Secretary (Urban Development), Urban Development Department, GNCTD.
13. PS to Pr. Secretary (Environment & Forests) -cum- Chairman (DPCC).

(Nigam Agarwal)
Sr. Scientific Officer

MINUTES OF THE 3rd MEETING OF THE RIVER REJUVENATION COMMITTEE (RRC) CONSTITUTED AS PER THE DIRECTIONS OF THE HON'BLE NGT DT. 20.09.2018 PASSED IN OA NO. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY TITLED "MORE RIVER STRETCHES ARE NOW CRITICALLY POLLUTED: CPCB" CONVENED UNDER THE CHAIRMANSHIP OF SECRETARY (ENVIRONMENT), GNCTD ON 17.01.2019 AT DELHI SECRETARIAT.

The 3rd Meeting of the River Rejuvenation Committee (RRC) constituted in compliance to the directions of the Hon'ble NGT dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB" was taken by Secretary (Environment) on 17.01.2019.

As per the directions of the Hon'ble NGT, RRC has to prepare action plan for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e BOD < 3 mg/L and FC < 500 MPN/100 ml) within six months from the date of finalisation of the action plans. As per the Hon'ble NGT order, in case of Delhi, the polluted river stretch has been identified from Wazirabad to Asgarpur village (22 km). As per the directions of the Hon'ble NGT dt. 19.12.2018, The Action Plan has to be submitted to CPCB by 31.01.2019.

Officers from various Departments including Environment, Forests, DPCC, Urban Development, DJB, DSIIIDC, Irrigation and Flood Control Department, DDA, North MCD, South MCD and East MCD attended the meeting.

Record of attendance is **enclosed**.

Secretary (Environment) welcomed all the participants and requested Director (Env.) to appraise the gathering about the subject and initiate deliberations on the issue.

Director (Env.) briefed about the discussions held during the 1st RRC Meeting held on 01.11.2018 and 2nd Meeting held on 20.11.2018.

Subsequently, the following was discussed:

- The matter was listed in Hon'ble NGT on 19.12.2018.
- Department of Environment, GNCTD had filed an Affidavit in the Hon'ble NGT for modification of the order, i.e., exclusion of Delhi from the directions of the Hon'ble NGT dt. 20.09.2018 issued in OA 673/2018 since this is a duplication of work in case of Delhi in light of the Yamuna Monitoring Committee comprising of Smt. Shailaja Chandra and Sh. B. S. Sajwan, constituted by Hon'ble NGT as per order dt. 26.07.2018.
- It has been observed by the Hon'ble NGT that GNCTD has also to prepare the action plan in terms of the previous order (dt. 20.09.2018) as well as order passed on 19.12.2018.

Signature

Contd..

- Hon'ble NGT has given the following directions on 19.12.2018:

"10. As already noted, contamination of water and deterioration of water quality are matters to be taken seriously as they affect public health and right of citizen to have access to potable drinking water. Unfortunately, in spite of categorical directions of this Tribunal in the order dated 20.09.2018 based on earlier judgments of the Hon'ble Supreme Court and this Tribunal, 15 States and UTs have failed to carry out the order of this Tribunal. The said States and UTs have not even taken the first requisite step of preparing an action plan, showing total insensitivity to such a serious matter and 6 public issue. With great regret, we may be left with no opinion but to take coercive action, if there is further failure.

11. We also find that for 16 States/UTs which have prepared action plans, the action plans are not complete. Base line data has not been given, preparation of action plans has been assigned to third parties, details of STPs etc. are also not given, timelines given are too long, status of e-flow has not been given, action plans are not proposed to be placed on websites to involve educational and other institutions and the public at large. The said States/ UTs may now give revised reports on or before 31.01.2019 to CPCB after complying with the deficiencies. The CPCB shall examine the action plans and only if they meet the scientific and technical yardstick shall approve the same and convey it to the respective States/UTs. The States/ UTs after its approval shall place/host these action plans on the respective website giving clear timelines for its execution, agencies responsible for its execution along with the matching budgetary provisions.

12. By way of last opportunity, we extend the time for preparation of action plans till 31.01.2019 with the stipulation that for every delay thereafter, compensation for damage to the environment will be payable by each of the States/ UTs at the rate of Rs. One Crore per month for each of the Priority- I and Priority- II stretches, Rs. 50 lacs per month for stretches in Priority- III and Rs. 25 lacs per month each for Priority- IV and Priority- V stretches. The payment will be the responsibility of the Chief Secretaries of the States/Administrators of the UTs and the amount may be recovered from the erring officers. The CPCB may prominently place the names of the defaulting States and UTs and a notice to this effect on its website.

13. The SPCBs and Pollution Control Committees of UTs may display the quality of the water of polluted river stretches on their respective websites within one month from today, alongwith action taken, if any, which may be revised every three months. The CPCB may also display the water quality of the river stretches and action/inaction by such States on its websites. It is made clear that BOD will not be the sole criteria to determine whether a particular river stretch is a polluted river stretch. Other parameters including Faecal Coliform (FC) bacteria will also be the criteria for classifying a stretch as polluted or otherwise. CPCB may devise within two weeks a mechanism for classification wherein two criteria pollutants that is BOD and FC shall henceforth be basis of classification in Priority Classes.

14. The CPCB may also examine whether river Rangpo in Sikkim falls in the category of polluted river stretches and if it is so, CPCB may give appropriate directions with regard to the said river also.

15. Any incomplete action plan will be treated as non-compliance. Performance guarantees are to be furnished for implementation of action plans within the above stipulated time to the satisfaction of Central Pollution Control Board in the sum of:

- (i) Rs. 15 crore for each of Priority I & II stretches*
- (ii) Rs. 10 crore for each of Priority III stretches*
- (iii) Rs. 5 crore for each of Priority IV & V stretches.*

[Signature]

Contd...

16. The CPCB will be at liberty to take further coercive measures against the States/UTs concerned and furnish a consolidated report to this Tribunal by 28.02.2019 by e-mail at nqt.filing@gmail.com.

List for further consideration on 08.04.2019."

- Secretary (Env. and Forests) requested the representatives present from various Departments/ organizations to appraise their Secretaries/ HoDs about the directions of the Hon'ble NGT dt. 20.09.2018 as well as 19.12.2018 and the discussions held in this meeting. All concerned Departments/ agencies to ensure compliance of these directions so that the Action plan alongwith implementation timelines is prepared and submitted to CPCB for approval by 31.01.2019.
- As per the directions of the Hon'ble NGT dt. 20.09.2018, the Action Plan prepared by the RRC has to be implemented within six months. However, it was raked up during the meeting that the timelines given by the concerned agencies are falling beyond the six months deadline. At this, it was collectively discussed that this issue has already been submitted to the Yamuna Monitoring Committee (YMC) constituted as per directions of the Hon'ble NGT dt. 26.07.2018 and is also reflected in the Action plan of the YMC. The excerpts as from the YMC Action Plan supporting this stand are as follows:

"River Yamuna is fighting for just oxygen to stay alive. The Central Pollution Control Board has specified that the river must achieve at least bathing standard. Presently the pollution in the Yamuna is far in excess and no impact on river quality is likely unless there a minimum environmental flow. The situation is exacerbated by a suffusion of sewage, industrial effluent and municipal waste which is also responsible for near destruction of the river.

NGT in its orders dated 13-01-2015 and 11-06-2015 had referred to the Order of Hon'ble Supreme directing release of 10 cumecs of water and reiterated that the state of Haryana must release at least 10 cumecs of water in the river, downstream of Hathankund barrage."

"Although the Yamuna River flows only for 54 KM from Palla to Badarpur though Delhi, the 22 KM stretch from Wazirabad to Okhla, which is less than 2% of the river length, accounts for about 76% of the pollution load in the river. During the dry season, spreading over nearly nine months of the year, the river has no fresh water downstream of Wazirabad and the only flow available is sewage, both treated and untreated, flowing through 22 drains that join the river Yamuna during its journey through Delhi.

NGT had directed setting up of Sewage Treatment Plants (STPs) and Common Effluent Treatment Plants (CETPs) to ensure that the sewage/industrial effluent does not find its way to drains which eventually join the river.

(I) With no flow in the river downstream of Wazirabad and 3911 MLD of sewage (both treated and untreated) released into the river with a BOD level in excess of 30 mg/L and DO virtually zero for most part of the year, there is no scope for any dilution. In the short and medium term, therefore, there is no possibility of achieving a BOD level of 3 mg/L for a C Class river as categorised by the CPCB. The MC therefore, will monitor incremental change in the quality parameters of

Signature

Contd..

river flow consequent to commissioning of Interceptor Sewer projects, setting up /Up gradation of STPs and other connected activities.”

“Second, from discussions with all experts it emerges that in the lean months 10 cumecs of water as ordered by the Supreme Court and NGT would be completely insufficient to sustain the flow in the river as the 10 cumecs released at Hathanikund evaporates or percolates as it flows downstream. Resultantly, most parts of the river are completely dry. There is presently no possibility of the release of more water in the river by the upper riparian states like Haryana and UP howsoever much the river runs dry downstream of Hathanikund.”

- The implementation plan with timelines w.r.t. the points covered in the Action Plan of the Yamuna Monitoring Committee constituted as per Hon’ble NGT directions dt. 26.07.2018 in OA 6 of 2012 and OA 300 of 2013, has been sent by DJB by e-mail.
- DPCC has also submitted the timelines w.r.t. their points in the Action Plan.
- DDA has also submitted the timelines to Yamuna Monitoring Committee. The same timelines apply for the Action Plan of River Rejuvenation Committee as well.
- Some other directions in the Order dt. 20.09.2018 in OA 673/2018 were also discussed. The direction-wise record of discussion is given below:

S.No.	Direction	Decision
1.	<i>The RRC will have a website inviting public participation from educational institutions, religious institutions and commercial establishments. Achievement and failure may also be published on such website. The Committee may consider suitably rewarding those contributing significantly to the success of the project.</i>	RRC for Delhi will implement this direction. (ACTION: RRC)
2.	<i>The RRCs will have the authority to recover the cost of rejuvenation in Polluter Pays Principle from those who may be responsible for the pollution, to the extent found necessary. In this regard, principle laid down by this Tribunal in order dated 13.07.2017 in O.A No. 200 of 2014, M.C Mehta Vs. U.O.I will apply. Voluntary donations, CSR contribution, voluntary services and private participation may be considered in consultation with the RRC.</i>	Urban Development Department will implement this direction and seek action taken reports from the concerned agencies including DDA, DJB, I & FC Dept, three MCDs, NDMC, DCB, PWD, DUSIB, DSIIDC etc. on the lines of the Polluter Pays Principle laid down by this Tribunal in order dated 13.07.2017 in O.A No. 200 of 2014, M.C Mehta Vs. U.O.I. As informed by Sh. S.S.

Ng...

Contd...

		Gill, Special Secretary, Urban Development Department, GNCTD, UD Department has also issued an Office Order to this effect on the directions of the Yamuna Monitoring Committee constituted vide Hon'ble NGT Order dt. 26.07.2018. copy of this order is placed in ANNEXURE V. (ACTION: Urban Development Department, GNCTD)
3.	<i>The State Pollution Control Boards or other authorities are having funds deposited under the order of the Tribunal besides funds available under Consent Mechanism. The said funds may be utilized for the purpose of expenditure for the Committees, including preparation and execution of action plans in accordance with the provisions contained in the Water Act, 1974.</i>	DPCC to implement this direction. (ACTION: DPCC)
4.	<i>The SPCBs and Pollution Control Committees of UTs may display the quality of the water of polluted river stretches on their respective websites within one month from today, alongwith action taken, if any, which may be revised every three months.</i>	DPCC to implement this direction. (ACTION: DPCC)

Thereafter, Secretary (Env.) directed all the concerned agencies to submit any additional information to be included in the Action Plan latest by today evening by e-mail at nigam.agarwal@gov.in.

(ACTION: All concerned Agencies/ Departments)

Lastly, Secretary (Env.) directed Environment Department to include/ compile all the additional information received (if any) in the Draft Action Plan and process the same for approval of the Worthy Chief Secretary by 21.01.2019 before it is submitted to CPCB.

(ACTION: Department of Environment, GNCTD)

Meeting ended with a vote of thanks to the Chair.

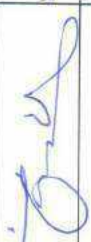



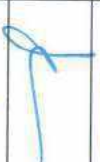






Nigam

DEPARTMENT OF ENVIRONMENT, GNCTD

ATTENDANCE SHEET

Date: 17.01.2019 / 11.00 AM

Sub: Third Meeting of the River Rejuvenation Committee (RRC) constituted as per the direction of the Hon'ble National Green Tribunal order dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB"

S.No.	Name & Designation	Organization/ Department	Phone Number	E-mail ID	Signature
1.	Shant Kumar, SE (Env)	DS & PDC	9818250728	shant.dsidk@gmail.com	
2.	Kawaljeet Kaur Asst. Dir. (Pls) Zone-0	DDA	9873058299	plg30nedee@gmail.com	
3.	M.K. Sharma SE (Env)	DS & PDC	9958800020	hfcrc@gmail.com	
4.	Raj Singh SE (Env)	EDMS	8800696691	se20medone@gmail.com	
5.	Jayanti Nandan SE/CC-5	DDA	9911147678	subtdcs@gmail.com	
6.	SIV KUMAR EEC-24	EEFC Dept. NCT of Delhi	9958890114	ijcdxive@gmail.com	
7.	M.M. Dahiya SE/SDMC	SDMC	8800696683	se1cuz@gmail.com	
8.	Gajender Tomar	DDA	9868187408	sedrpl1ybe@gmail.com	
9.	Sanjay Verma, SE	DDC	9717593530	sanjayvms@gmail.com	
10.	Mukul BHANDARKAR	DDA	9656305656	sedrprene@gmail.com	
11.	PENAM A. DEIVAN ARAS	DDA	9580264646	penamsuby@gmail.com	












DEPARTMENT OF ENVIRONMENT, GNCTD

33810

ATTENDANCE SHEET

Date: 17.01.2019 / 11.00 AM

Sub: Third Meeting of the River Rejuvenation Committee (RRC) constituted as per the direction of the Hon'ble National Green Tribunal order dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB"



S.No.	Name & Designation	Organization/ Department	Phone Number	E-mail ID	Signature
12.	ARUN KUMAR SE ENS	EDMC	9719788001	arunmcd@gmail.com	
13.	M C RATH	SE DJB	9654888204	seplannrp.dudya@gmail.com	
14.	Nisheth Saren	CF GNCTD	9968 312090	cydathp@t@gmail.com	
15.	S.S. Gill	Sp. Secy, GNCTD	9560235576	sp/secyurbandevelopment@gmail.com	
16.	Manoh Agarwal EE	IT&E	9358830103	itcdiic@gmail.com	
17.	Manoj Kumar, E.E.	DEMS, North DMU	8588 887929	eedens04@gmail.com	
18.	Ashwini Kankhale	DJS CWA	9650098921	ena.akh@gmail.com	
19.	V. K. BINGHASE	SEI DPC	9717593512	ak.singhkhpc@gmail.com	
20.	P. S. PAIKAR	EB, DPCR	9717553512	paikar@yaho.com	
21.	O. P. SHINHA	CE 1 RRC	9899260883		
22.	Dr. Anil Kumar, Director	Dept. of Environment Govt of Delhi	9713593505	dr.anil.dellhi@nic.in	

DEPARTMENT OF ENVIRONMENT, GNCTD

ATTENDANCE SHEET

Date: 17.01.2019 / 11.00 AM

Sub: Third Meeting of the River Rejuvenation Committee (RRC) constituted as per the direction of the Hon'ble National Green Tribunal order dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB"

S.No.	Name & Designation	Organization/ Department	Phone Number	E-mail ID	Signature
23.	S. M. Ali	MS, DPCC	9871006453	Smali.india@gmail.com	
24.	NIGAM AGARWAL, SSO	Environment Dept. GNCTD	9818288188	nigam.agarwal@gmail.com	
25.	Secretary (Env.)	Environment Dept. GNCTD	_____	in chain _____	
26.					
27.					
28.					
29.					
30.					
31.					
32.					
33.					

3371

Department of Environment, Government of NCT of Delhi

6th Level, C-Wing, Delhi Secretariat, I.P. Estate, New Delhi- 110002

Telefax: 23392029

F.12 (585)/Env/NGT/OA 673 of 2018 *1933-1949*

Dated: *25/03/19*

MINUTES OF MEETING

Kindly find enclosed the Minutes of the Fourth Meeting of the River Rejuvenation Committee (RRC) constituted in compliance to the directions of the Hon'ble NGT dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB" held under the Chairmanship of Secretary (Environment) on 15.03.2019 at Delhi Secretariat, for necessary action please.

Encl. : As above.

Nigam Agarwal
(Nigam Agarwal)
Sr. Scientific Officer

Copy to (By email):

1. Special Secretary, Urban Development Department, GNCTD.
2. Sh. S. M. Ali, MS (Delhi Pollution Control Committee), Kashmere Gate, Delhi.
3. Dr. Anil Kumar, Director, Department of Environment, GNCTD
4. Sh. T.P Singh, Dy. Commissioner, Industries Department, GNCTD.
5. Sh. O.P. Shrivastav, CE, I&FC, GNCTD.
6. Sh. Sanjay Saxena, CE, I&FC, GNCTD.
7. Sh. M.C Ram, SE, DJB.
8. Sh. M.K Hans, SE, DJB.
9. Sh. Mukul Bhandula, SE, DJB
10. Sh. D. K. Singh, SEE, DPCC.
11. Dr. Nandita Moitra, Sr. Scientist, Water Lab, DPCC.

Copy for information to (by e-mail):

1. Chairman, Central Pollution Control Board.
2. PS to Secretary, Irrigation and Flood Control Department, GNCTD.
3. PS to Commissioner (Industries), Industries Department, GNCTD. PS to MD, DSIIDC.
4. PS to CEO, DJB.
5. PS to Pr. Secretary (Urban Development), Urban Development Department, GNCTD.
6. PS to Pr. Secretary (Environment & Forests) -cum- Chairman (DPCC).

Nigam Agarwal
(Nigam Agarwal)
Sr. Scientific Officer

MINUTES OF THE 4th MEETING OF THE RIVER REJUVENATION COMMITTEE (RRC) CONSTITUTED AS PER THE DIRECTIONS OF THE HON'BLE NGT DT. 20.09.2018 PASSED IN OA NO. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY TITLED "MORE RIVER STRETCHES ARE NOW CRITICALLY POLLUTED: CPCB" CONVENED UNDER THE CHAIRMANSHIP OF SECRETARY (ENVIRONMENT), GNCTD ON 15.03.2019 AT DELHI SECRETARIAT.

The 4th Meeting of the River Rejuvenation Committee (RRC) constituted in compliance to the directions of the Hon'ble NGT dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB" was taken by Secretary (Environment) on 15.03.2019.

As per the directions of the Hon'ble NGT, RRC has to prepare action plan for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e BOD < 3 mg/L and FC < 500 MPN/100 ml) within six months from the date of finalisation of the action plans. As per the Hon'ble NGT order, in case of Delhi, the polluted river stretch has been identified from Wazirabad to Asgarpur village (22 km). As per the directions of the Hon'ble NGT dt. 19.12.2018, The Action Plan has to be submitted to CPCB by 31.01.2019.

Officers from various Departments including Environment, DPCC, Urban Development, DJB, Irrigation and Flood Control Department attended the meeting.

Record of attendance is enclosed.

Secretary (Environment) welcomed all the participants and requested Director (Env.) to appraise the gathering about the subject and initiate deliberations on the issue.

Director (Environment) briefed about the discussions held during the 1st RRC Meeting held on 01.11.2018, 2nd Meeting held on 20.11.2018 and 3rd Meeting held on 17.01.2019. He also appraised that the Action Plan by RRC Delhi was submitted to the CPCB on 30.01.2019 and subsequently a presentation was given by DPCC/ Environment Department at CPCB on 12.02.2019. An executive summary of the Action Plan was also prepared as per the format prescribed by CPCB and submitted to CPCB by email on 22.02.2019.

Further, the recommendations by CPCB Task Team regarding Action Plan by RRC-Delhi as mentioned in letter dated 25.02.2019 addressed to Member Secretary DPCC from Central Pollution Control Board regarding Compliance to Hon'ble NGT order dated 20th September, 2018 on this matter were also discussed. The CPCB task team has not recommended the action plan by Delhi and CPCB has requested to submit the revised action plan in compliance to Hon'ble NGT order dt. 20.09.2018 and 19.12.2018 with the approval of River Rejuvenation Committee to CPCB for further review.

Thereafter, officers present from Urban Development, DJB, Irrigation and Flood Control Department etc. expressed that they have already submitted inputs w.r.t the NGT order dated 20.09.2018 and 19.12.2018 and Delhi's Action Plan has been prepared on the basis of the Action Plan prepared by Yamuna Pollution Monitoring Committee, constituted by

Contd...

Hon'ble NGT vide order dated 26.07.2018. However, CPCB has not considered the Action Plan.

Thereafter, Secretary (Env.) directed RRC to check the Action Plan of the states whose Action Plan have been recommended by CPCB and Delhi Action may be revised on the same lines so that the same may be submitted to CPCB.










Meeting ended with a vote of thanks to the Chair.

DEPARTMENT OF ENVIRONMENT, GNCTD

ATTENDANCE SHEET

Date:15.03.2019/ 03.30 PM

Sub: The 4th Meeting of the River Rejuvenation Committee (RRC) constituted as per the direction of the Hon'ble National Green Tribunal order dt. 20.09.2018 passed in OA No. 673/2018 IN THE MATTER OF: NEWS ITEM PUBLISHED IN 'THE HINDU' AUTHORED BY SHRI. JACOB KOSHY Titled "More river stretches are now critically polluted: CPCB"

S.No.	Name & Designation	Organization/ Department	Phone Number	E-mail ID	Signature
1.	CHANDRA SHEKHAR, Dy. Secy(w)	UD Department	9899666448	ganesraawat@gmail.com	
2.	ANIL KUMAR SE	IRPCO (CH)	995888954	CPIRC@gmail.com ifcse@gnctd.org	
3.	T.K. PRASITH REKH S.E	IRFC DEPT	9650748758	ifcse@gmail.com	
4.	MUKUL BHAKNOLA	DSB.	9651305656	sedpnew@gmail.com	
5.	SANTAY SAXENA CE	Idfi	9868261111	lcufd@gmail.com	
6.	Dr Nandita	DPCC			
7.	Gajender Tom S.E	DIR	9860127402	sedp2d5b@gmail.com	
8.	NIGAM AGARWAL SSO	Env. Dept. GNCTD	9818288188	nigam.agarwal@gov.in	
9.	Dr. Anil Kumar, Director	Env. Dept. GNCTD	9717593505	direnv.delhi@nic.in	
10.	S. M. Ali, Spl. Secretary (Env.) - cum - MS (DPCC)				