



DELHI POLLUTION CONTROL COMMITTEE
 Department of Environment, Govt. of NCT of Delhi
 5th Floor, ISBT Building, Kashmere Gate, Delhi-110006
 visit us at : <http://dpcc.delhigovt.nic.in>

F.No: DPCC/WMC-II/Status Report/OA No. 606 of 2018/2019/3189- 3204

Dated: 28.02.2020

To,

✓ The Member Secretary,
 Central Pollution Control Board,
 Parivesh Bhawan, East Arjun Nagar, Delhi 110032

Subject: Submission of Compliance Report of Govt. of NCT of Delhi w.r.t Hon'ble NGT orders dated 12.09.2019 & 07.01.2020 in OA No. 606/2018 regarding Compliance of Municipal Solid Waste Management Rules, 2016

Sir,

With reference to email dated 03.01.2020 received from Sh. A. Sudhakar, Addl. Director, CPCB, and our letter dated 09.01.2020, please find enclosed herewith Compliance Report of Govt. of NCT of Delhi w.r.t Hon'ble NGT orders dated 12.09.2019 & 07.01.2020 in OA No. 606/2018 regarding Compliance of Municipal Solid Waste Management Rules, 2016

Yours faithfully,

(Arun Mishra)

Special Secretary (Environment)
 Cum Member Secretary, DPCC

Enclosure: As Above

Copy to : For Information and Necessary Action (Compliance Report is being sent through email.)

1. The Vice Chairman, Delhi Development Authority, Vikas Sadan, INA, Delhi-110023.
2. The Secretary (UD), Urban Development Deptt., Govt. of NCT of Delhi, 9th Floor, Delhi Secretariat, Delhi-02.
3. The Chairman, New Delhi Municipal Council (NDMC), Palika Kendra, Parliament Street, New Delhi-110011.
4. The Commissioner, South Delhi Municipal Corporation, 9th Floor, Dr. S.P.M Civic Center, JNL Marg, Delhi- 02.
5. The Commissioner, North Delhi Municipal Corporation, 4th Floor, Dr. S.P.M Civic Center, JLN Marg, Delhi- 02.
6. The Commissioner, East Delhi Municipal Corporation, 419, Udyog Sadan, Patparganj Industrial Area, Delhi-92
7. The Chief Executive Officer, Delhi Cantonment Board, Delhi Cantt., Sadar Bazaar, New Delhi 110010.
8. The Secretary (Revenue) cum Divisional Commissioner, 5 Sham Nath Marg, Delhi-110054.
9. The Chief Executive Officer, Delhi Jal Board, Varunalaya Ph-II, Jhandewalan, Karol Bagh, New Delhi-11000.
10. The Commissioner of Industries, Govt. of NCT of Delhi. 419, Udyog Sadan, FIE Patparganj Industrial Area Delhi-110092.
11. The Managing Director, Delhi State Industrial & Infrastructure Development Corporation Ltd. N-36, Bombay Life Building, Connaught Circus, New Delhi - 110001
12. The Secretary, Irrigation & Flood Control Department, Govt. of NCT of Delhi, LM Bund, Shastri Nagar, Delhi -31.
13. The Secretary-Cum -Commissioner, Development Deptt., Govt. of NCT of Delhi 5/9, Under Hill Road, Delhi-54
14. Staff Officer to Chief Secretary, Govt. of NCT of Delhi.
15. PS to Pr. Secretary (Environment) - General, Chairman, DPCC.

परिवेश भवन, ई. अरुन नगर, दिल्ली-32

28 FEB 2020

Central Pollution Control Board
 Parivesh Bhawan, East Arjun Nagar, Delhi-32

(Arun Mishra)
 Special Secretary (Environment)
 Cum Member Secretary, DPCC

Compliance Report of Govt. of NCT of Delhi in OA No. 606/2018

(February, 2020)

1. Background:

The afore-cited matter relating to municipal solid waste management and allied issues was listed on 16.01.2019 wherein various directions have been given by the Hon'ble National Green Tribunal to the Chief Secretary, Govt. of NCT of Delhi in OA No. 606/ 2018 in the matter of "Compliance of Municipal Solid Waste Management Rules, 2016". In pursuance of the said order a status report was filed before the Hon'ble National Green Tribunal on 08.03.2019 and Chief Secretary, Delhi was present in person before the Hon'ble Tribunal on 11.03.2019. In compliance of the order Dated 11.03.2019, First and Second Quarterly Report of Govt. of NCT of Delhi were filed before the Hon'ble National Green Tribunal on 29.06.2019 & 10.10.2019 respectively.

Hon'ble National Green Tribunal vide order dated 12.09.2019 in the said matter has given a set of directions with regard to compliance of 14 Thematic Areas. Compliance report of Govt. of NCT of Delhi with respect to said order dated 12.09.2019 was sent to CPCB vide letter dated 01.11.2019 along with the information in the formats provided by CPCB. The CPCB filed its status report dated 27.12.2019 & 06.01.2020 with reference to the thematic areas to the Hon'ble National Green Tribunal.

Subsequently, the Hon'ble National Green Tribunal vide order dated 07.01.2020 in the said matter has directed CPCB to redesign formats and secure relevant quantifiable information from the Chief Secretaries under different heads so that the Chief Secretaries are able to respond to the Tribunal on their appearance as per schedule of appearance already notified.

The date of appearance of the Chief Secretary, Govt. of NCT of Delhi, before the Hon'ble National Green Tribunal has been fixed for 06.03.2020 instead of 10.01.2020 fixed earlier.

Information relating to Solid Waste, Sewage Management, Rivers identified with polluted stretches, Air Pollution with reference to non- attainment cities and other thematic issues were requested by CPCB and suggestive formats were provided in respect of aforesaid four issues.

The Chief Secretary is reviewing the compliance status with all the concerned Heads of Departments of Govt. of NCT of Delhi and Local Bodies regularly. Besides, Special Task Forces (STF) for each District has been constituted by Environment Department vide office order dated 07.03.2019. After getting nomination another order was issued regarding constitution of STFs vide letter dated 16.04.2019.

2. Order of Hon'ble National Green Tribunal Dated 12.09.2019 :

Hon'ble National Green Tribunal vide order Dated 12.09.2019 has given directions that the information with regard to following Thematic Areas needs to be submitted to CPCB.

- Compliance to Solid Waste Rules including Legacy Waste.
- Compliance to Bio-medical Waste Rules.
- Compliance to Construction & Demolition Waste.
- Compliance to Hazardous Waste Rules.
- Compliance to E-waste Rules.
- 351 Polluter Stretches in the country.
- 122 Non-attainment cities.
- 100 industrial clusters.
- Status of STPs and re-use of treated water.
- Status of CETPs/ETPs including performance.
- Ground water extraction/contamination and re-charge.
- Air pollution including noise pollution.
- Illegal sand mining.
- Rejuvenation of water bodies.

The information with regard to above thematic areas needs to be submitted to CPCB by the Chief Secretaries of all the States and Union Territories in terms of following:

- Current status.
- Desirable level of compliance in terms of statutes.
- Gap between current status and desired levels.
- Proposal of attending the gap with time lines.
- Name and designation of designated officer for ensuring compliance to provisions under statute.

3. CPCB vide letter dated 27.09.2019 had sought information in respect of following Thematic Areas in the prescribed formats:

- Solid Waste
- E-Waste
- Biomedical Waste
- Noise
- Hazardous Waste
- Sewage Treatment Plant

Compliance report of Govt. of NCT of Delhi with respect to said order dated 12.09.2019 was sent to CPCB vide letter dated 01.11.2019 along with the information in the formats provided by CPCB.

As per the directions of Hon'ble National Green Tribunal vide order Dated 12.09.2019 compliance report in terms of earlier orders particularly whether any model cities and villages have been made fully compliant with environmental norms and other major achievements made is to be submitted to the tribunal.

Updated status in respect of above mentioned thematic areas including Solid Waste, Sewage Management, Rivers identified with polluted stretches, Air Pollution with reference to non- attainment cities are given in following paras.

4. Detailed Information in respect to each Thematic Area is given below :

4.1 Compliance to Solid Waste Management Rules, 2016 including Legacy Waste

(I) Municipal Solid Waste Management :

Statistics on MSW Generation, Processing and Disposal

S. No.	Particulars	North DMC	SDMC	EDMC	NDMC	DCB	Total
1.	Total Municipal Solid Waste (MSW) Generation (in TPD)	4500 (Approx.)	3600 (Approx.)	2700 (Approx.)	280 (Approx.)	64 (Approx.)	11144 (Approx.)
2.	Lifting / Collection of MSW (in %)	100%	100%	100%	100%	100%	100%
3.	Segregation of MSW at Source(House hold, etc.) (in %)	5%	80- 100% (in Model Wards)	85- 90% (in Model Wards)	100%	90%	—
4.	Processing (Treatment) of MSW in TPD (in %)	2300 (51%)	1850 (51%)	1275 47%	280 (100%)	47 (73%)	5752 (52%)
5.	Disposal of MSW in Landfilling in TPD (in %)[Gap between Total MSW generation & Processing]	2200 (49%)	1750 (49%)	1425 (53%)	Nil	17 (27%)	5392 (48 %)

a) Collection, Segregation & Transportation of Municipal Solid Waste:

There are 5 Local Bodies in Delhi responsible for implementation of the Solid Waste Management Rules, 2016. Total Municipal Solid Waste generation in Delhi is 11144 Tonnes per day (TPD). For proper treatment and disposal of the municipal solid waste, waste segregation is pre-requisite and the local bodies are implementing a detailed plan of waste segregation at source, door to door collection, intermediate storage and transport facility with GPS for the segregated waste including Material Recovery Facility. The municipal bodies of New Delhi Municipal Council and Delhi Cantonment Board have achieved almost complete segregation of waste at source, door to door collection, transportation and its handling. The rest of the 3 municipal corporations as EDMC, SDMC and North DMC have achieved segregation in 3 Model Wards in each corporation and are in the process to implement the same in rest of the wards.

(b) Municipal Solid Waste Processing and Disposal Facilities:

There is one Integrated Solid Waste Management Facility at Bawana for processing of 2000 TPD of municipal solid waste having Waste to Energy Plant, Compost Plant (of 700 TPD capacity) and Engineered Sanitary Land Fill. This Integrated Solid Waste Management Facility is being operated by M/s Delhi MSW Solutions Ltd. One Engineered Sanitary Land Fill

is proposed to be developed by South Delhi Municipal Corporation (SDMC) at Tehkhand for managing 2000 TPD. An Integrated Solid Waste Management Facility for 2000 TPD is proposed to be developed by East Delhi Municipal Corporation (SDMC) in joint venture with NTPC at Ghonda Gujran. Besides other facilities the said facility will be having Waste to Energy Plant. There is one Centralised Compost Plant at Okhla with 200 TPD capacity. Site at Sonia Vihar in the EDMC area has been identified for development of Engineered Sanitary Land Fill. There are 3 Dumpsites at Ghazipur, Bhalaswa and Okhla.

(c) Waste to Energy Plants :

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 Plant of capacity about 2000 TPD is proposed at Tehkhand and another 1800 TPD in the Integrated Waste Complex at Ghonda Gujran. After commissioning of these 2 proposed WTEs capacity of WTE Plants will increase from 5250 TPD to 9050 TPD by December, 2021.

Operational Waste to Energy Plants in Delhi

S. No	Name of Waste to Energy Plant	Existing Capacity (in TPD)
1	Timarpur Okhla Waste Management Company Ltd., Old NDMC Compost Site, Okhla.	1950
2	East Delhi Waste Processing Company Ltd., Ghazipur	1300
3	Delhi MSW Solutions Ltd, Narela Bawana Road, Bawana	2000
	Total	5250

(d) Proposed Waste Processing Facilities & Sanitary Land Fill in Delhi

S.No.	Particulars	Location	Area of Local Body	Capacity	Expected Timeline for Completion
1.	Waste to Energy Plant	Tehkhand	SDMC	2000 TPD	March, 2021
2.	Integrated Municipal Waste Processing Facility	Ghonda Gujran	EDMC	2000 TPD	June , 2022
3.	Sanitary Landfill	Tehkhand	SDMC	2000 TPD	March, 2021

(e)Decentralized Waste Management Facilities (Compost Plants /Biomethanation Plants)

The Government is in the process of installation of decentralized Waste Management Facilities (Compost Plants / Bio- Methanation Plants) so that the solid waste generated is segregated and treated at source and the transport and dumping of waste in far away areas can be done away with. The details of the decentralized plants already commissioned and those at different stages of commissioning are as follows:

NORTH DMC

(i) Accelerated Composter / Bio-Methanisation Plant 1 TPD Capacity (6 Nos)

- 2 Plants commissioned at Bhorgarh Nursery and Rajendra Nagar Nursery.
- 4 Plants (at Sector 11 Rohini, Haiderpur Water Treatment Plant ,Maurya Enclave at Pitampura and one at some other location) to be commissioned by 31.03.2020.

(ii) Bio-Methanation Plants 5-TPD Capacity (4 Nos)

- 2 Plants commissioned at Roshanara Bagh and MVID Hospital.
- 2 Plants to be commissioned by 31.03.2020.

(iii) 200 TPD Bio-Methanisation Plant (Based on Cow Dung) at Bhalswa Dairy Colony:

- Work awarded, to be commissioned by 31.12.2020.

EAST DMC

(i) Composters of 1 TPD Capacity (10 Nos)

- 7 Plants commissioned
- 3 Plants to be commissioned by March, 2020.

(ii) Bio-Methanation Plants 5-TPD Capacity (2 Nos)

- One Plant at Geeta Colony commissiond.
- Another Plant at Shastri Park to be commissioned by March,2020.

(iii) 100 TPD Bio-Methanisation Plant at Ghazipur:

- Clearance from PESO is awaited. The plant is excepted to be commissioned by 31.07.2020.

SOUTH DMC

(i) Four Compost Plants of 1 TPD each

- Two plants commissioned.
- Two plants likely to be commissioned by March, 2020 .

(ii) Four Bio-Methanation Plants (5 TPD Each).

- Two plants commissioned.
- Two plants likely to be commissioned by March,2020

(f) State Level Committee (SLC)

As per the direction of Hon'ble NGT, State Level Committee (SLC) under the Chairmanship of Chief Secretary was constituted vide office order dated 15.02.2019 and its term was extended by Six Months vide Office Order Dated 27.09.2019.

The State Level Committee (SLC) under the Chairmanship of Chief Secretary has reviewed the action taken w.r.t. the orders of Hon'ble National Green Tribunal Dated 16.01.2019 and 11.03.2019 with all the concerned Heads of Departments of Govt. of NCT of Delhi and Local Bodies from time to time. Minutes of the meetings chaired by Chief Secretary have already been submitted before the Hon'ble Tribunal vide 1st Quarterly Report filed on 29.06.2019 and

2nd Quarterly Report filed on 10.10.2019. Status / Steps taken by the Municipal Corporations / Local Bodies for the compliance of **Rule 22** of the Solid Waste Management Rules, 2016.

(g) Annual Reports for the year 2017-2018 and 2018-2019 in respect of Solid Waste Management Rules, 2016, Construction and Demolition Waste Management Rules, 2016, Bio-Medical Waste Management Rules, 2016 and Plastic Waste Management Rules, 2016 have already been submitted to CPCB.

Para wise information on different items of Solid Waste Management are given below:

i. Status of completion of Performance Audit of different Departments:

Performance Audit of DPCC was conducted by CPCB on 23– 24 May, 2019. Status of Performance Audit of Local Bodies / Delhi State Industrial and Infrastructure Development Corporation (DSIIDC) is given in the following Table:-

Status of Performance Audit of Local Bodies / DSIIDC

S. No.	Name of Local Body/Organization	Performance Auditing Agency	Brief Status
1	South Delhi Municipal Corporation	TERI	Draft report of Performance Audit received.
2	North Delhi Municipal Corporation	TERI	Final Report of Performance Audit received
3	East Delhi Municipal Corporation	TERI	Report of Performance Audit received.
4	New Delhi Municipal Council	TERI	Final Report of Performance Audit received
5	Delhi Cantonment Board	NEERI	Performance Audit is under process.
6	DSIIDC	NPC	Final Report of Performance Audit received

The concerned regulatory bodies and agencies have been directed to take remedial measures on the shortcomings identified during the performance audit.

ii. Installation of Wire-Nets etc. on the Drains (Big / Small):

(a) Irrigation & Flood Control Department (I & FCD):

Two drains of I&FCD i.e. Najafgarh Drain and Shahdara outfall Drain are falling directly into the river Yamuna. 4 Nos. of Floating Booms (at two locations on each drain) have already been installed in both the drains to trap & collect the floating material / MSW from out falling into the river. In addition, I&FCD has also installed 116 Nos. of Floating Booms in rest of the drains to control the inflow of floating material into river Yamuna.

(b) Delhi State Industrial and Infrastructure Development Corporation (DSIIDC):

DSIIDC has installed wire nets at 32 locations in Bawana Industrial Area on the storm water drains. Wire nets have been installed at 5 locations in Narela Industrial Area at the outlets Storm Water Drains to prevent entry of Municipal solid waste and Plastic waste into drains. The work was awarded on 14.10.2019 and is expected to be completed by **31.03.2020**.

MS Grating/Jali is being installed in following Industrial Areas:-

1. Mayapuri Industrial Area Phase – I & II
2. Udyog Nagar Industrial Area
3. Okhla Industrial Area S-Block
4. Lawrance Road Industrial Area
5. F.F.C. Jhandewalan
6. Rajasthani Udyog Nagar
7. G.T.K. Road Industrial Area
8. Kirti Nagar Industrial Area
9. Badli Industrial Area
10. Wazirpur Industrial Area
11. DSIIDC Nangloi Industrial Area
12. Patparganj Industrial Area
13. Nariana Industrial Area Phase – I & II
14. Jhilmil Industrial Area
15. Mangolpuri Industrial Area Phase – I & II
16. DLF Moti Nagar Industrial Area
17. Rama Road Industrial Area at the junction of drains and outfall.

(c) Delhi Cantonment Board (DCB):

- Installation of grills and gratings have been completed in all secondary drains identified by the office to ensure that solid waste does not enter into water bodies/drains.
- DCB has provided signages with cautionary message not to dump waste into drains/ nallah, and any violation will invite payment of Environmental compensation of Rs 50,000. Public notice in this regard has also been issued and uploaded on the website of DCB. Dedicated teams have been formed to ensure regular checking.

(d) East Delhi Municipal Corporation (EDMC):

Wire fencing work on the entire stretch of the 52 cusec drain is in progress. This drain is about 2000 meter in length and 6 meter wide. The work of covering of 52 cusec drain by wire mesh has been completed in 80% stretch (1600 meter) and remaining work is expected to be completed by February, 2020.

(e) South Delhi Municipal Corporation (SDMC):

SDMC has provided list and details of all the works carried out. 57 No. of storm water drains flow through the SDMC area and clearing / screening process has been done in these drains.

iii. Special Task Forces (STF):

Special Task Forces (STF) for each District has been constituted by Environment Department vide office order dated 07.03.2019. After getting nomination another order was issued regarding constitution of STFs vide letter dated 16.04.2019. The Special Task Forces (STFs) have started functioning and the decisions taken by the STFs have been communicated for further action.

(II) Legacy Waste (Old MSW):

There are 3 Dumpsites at Ghazipur, Bhalaswa and Okhla in Delhi where Municipal Solid Waste have been dumped and there is legacy waste of 28 Million Tons. Brief about these dumpsites is given in following Table :

Brief of Landfill / Dump Sites in NCT of Delhi

S. No.	Name of Landfill / Dump Site	Location	Area (in Acres)	Concerned Local Body	Height of Dump Site (Appx.) (in Meters)	Legacy Waste (in Million Tons)
1	Bhalaswa Dump Site	North Delhi	36	North DMC	62	8
2	Ghazipur Dump Site	East Delhi	70	EDMC	65	14
3	Okhla Dump Site	South East Delhi	46	SDMC	40	6
	Total					28

Hon'ble National Green Tribunal vide order dated 17.07.2019 in OA No. 519 / 2019 in the matter of News item published in "The Times of India" Authored by Jasjeev Gandhiok & Paras Singh Titled "Below mountains of trash lie poison lakes" and OA No. 386/2019 in the matter of "Centre for Wildlife and Environment Litigation" Vs Union of India &Ors." has passed detailed order regarding Disposal of 'Legacy' Waste dumped at Bhalswa, Ghazipur and Okhla Dumpsites and given various directions.

Hon'ble NGT has directed the Municipal Corporations to go for bio mining using trommels instead of capping of the dump sites at Bhalswa, Ghazipur and Okhla.

The estimated cost to clear the above three dump sites at Delhi may be approx. Rs. 250 Crores as given below :

- i. EDMC - Rs. 125 Crores
- ii. North MCD - Rs. 75 Crores
- iii. SDMC - Rs. 50 Crores

As per the directions of the Hon'ble Tribunal the contributions towards said amount of Rs. 250 Crores in three separate ESCROW accounts will be as follows :

i	EDMC	(i) NCT Delhi (ii) EDMC (iii) NDMC* (iv) DCB**	Rs. 65 Crore Rs. 40 Crore Rs. 10 Crore Rs. 10 Crore
ii	North MCD	(i) NCT Delhi (ii) North MCD (iii) NDMC (iv) DCB	Rs. 35 Crore Rs. 30 Crore Rs. 05 Crore Rs. 05 Crore
iii	SDMC	(i) NCT Delhi (ii) SDMC (iii) NDMC (iv) DCB	Rs. 25 Crore Rs. 15 Crore Rs. 05 Crore Rs. 05 Crore

As per the said order legacy waste dumpsites is to be cleared within one year and substantial progress must be made and demonstrated within six months.

As directed by the Hon'ble NGT, the Committee headed by Chief Secretary, Govt. of NCT of Delhi has been constituted vide order dated 25.07.2019. The ESCROW accounts for North DMC, East DMC and South DMC have been opened. Regular meetings of the Committee headed by Chief Secretary are held to review the progress in the said matter.

Out of Rs. 250 Crores, an amount of Rs. 245 Crores have been contributed by the DPCC, DMCs, DCB & NDMC. DCB has deposited only 15 Crores (out of Rs. 20 Crores) and filed an application before the Hon'ble Supreme Court for exemption of Rs. 5 Crores to be deposited to North DMC, because DCB is not dumping its MSW at Bhalswa landfill site. Chief Secretary in the meeting held on 20.12.2019 has decided that DCB has to deposit Rs. 5 Crore.

The Committee has already prepared the plan under which the legacy waste dumped at the 3 locations is being treated by way of "Bio-mining" utilizing high capacity Trommel machines. North DMC has been appointed as Nodal Corporation among all the three Municipal Corporations for tendering process for hiring trommels for bio mining and bio remediation of old dump waste on rental basis. Tenders were called on 30.8.2019. The rates of lowest tender were Rs. 629944/- per month per trommel as per requirement of tender documents. Panel of 9 Contractors was approved by the competent authority.

The implementation of the project has been started w.e.f. 01.10.2019 & 17 Trommels have already been installed and more than 1 Lakh MT of legacy waste has been processed. Inert material generated during the process is about 60% to 70% by weight or 40% by volume of the waste being processed, which needs to be disposed of in a scientific manner. It is a major challenge before the municipal corporations to make suitable land available for disposal of this inert material particularly since the availability of land is extremely scarce in Delhi.

SDMC on behalf of all the three DMCs has moved an application to Forest Department for procurement of space in four empty pits of Bhatti mines for temporarily dumping inert materials generated due to bio-mining. The details of processing of legacy waste by each DMC as on 15.01.2020 is given in following Table :

Bio-Mining of Legacy Waste at 3 Dumpsites in Delhi (As on 27.02.2020)

S. No.	Name of Local Body (Dumpsite)	No. of Trommels Installed	No. of Operational Trommels	Total Processed Quantity of Legacy Waste	% of Inert Material
1	SDMC (Okhla Dumpsite)	1	1	30,000 MT	60-70%
2	EDMC (Ghazipur Dumpsite)	3	3	27,000 MT	60-70%
3	North DMC (Bhalaswa Dumpsite)	13	9	1,40,000 MT	60-70%
	Total	17	13	1,97,000 MT	

Information in the redesigned format provided by CPCB in respect of Solid Waste Management is enclosed as **ANNEXURE- I (A).**

Information in respect of Rule 22 of Solid Waste Management Rules, 2016 is enclosed as **ANNEXURE- I (B).**

4.2 Compliance to Bio-medical Waste Management Rules, 2016:

4.2.1 Bio Medical Waste Management:

Bio-medical Waste is generated from the Hospitals, Nursing Homes, Clinics, Pathological Laboratories, Diagnostic Centers, Research Laboratories etc. and dealt as per the provisions of the Bio Medical Waste Management Rules, 2016, as amended is given in following Table :-

Bio-medical Waste Management in Delhi

S. No	Description	Quantity
1	No. of Health Care Establishments (HCEs)	10500 (Appx.) (As per Authorisation Applications received by DPCC)
2	No. of Beds with HCEs	65000 (Appx.)
3	Quantity of Bio Medical Waste	26.7 TPD
4	No. of Common Bio Medical Waste Treatment Facilities	2 Nos
5	Treatment Capacity of 2 CBWTFs	63 TPD

There are following 2 CBWTFs having Capacity of about **63 TPD** for collection and Treatment of the Bio-medical waste generated from the Health Care Establishments in Delhi:

- (1) M/s Biotic Waste Solutions Pvt. Ltd., 46 SSI Industrial Area, G.T.Karnal Road, Delhi-33
- (2) M/s SMS Water Grace BMW Pvt. Ltd., Nilothi Sewage Treatment Plant Complex of DJB, Nilothi, Delhi -41.

Both the CBWTFs are having Incinerators, Autoclaves & Shredders for the treatment of Bio Medical Waste collected from the Health Care Establishments in Delhi and have installed Air Pollution Control System and Online Monitoring System.

- Inventorization of Health Care Establishments in Delhi has been completed as all bedded and non-bedded HCFs from known sources have been covered.
- Action is taken against the violators / defaulting Health Care Establishments as per the provisions of the Bio Medical Waste Management Rules, 2016 & other applicable Acts / Rules.
- Directions for Closure etc. are issued to 54 Hospitals / Nursing Homes/ non-bedded facilities (mainly diagnostic centers) found operating without applying for authorisation.
- Environmental Compensation is also levied on such Health Care Establishments.
- HCEs are regularly inspected by DPCC individually, as well as along with District Level Monitoring Committees for checking compliance of the authorization issued/provisions of Bio-medical Waste Management Rules, 2016.
- Common Bio-medical Waste Management facilities are being inspected at least once in six months along with third party, both CBWTFs in Delhi have 2-second residence time in secondary chamber.
- Barcode system has been implemented in Delhi.

Information in the format provided by CPCB in respect of Bio-medical Waste Management is enclosed as **ANNEXURE-II**.

4.3 Compliance to Construction & Demolition Waste Management Rules, 2016:

The status of Construction and Demolition Waste management in Delhi is being reviewed regularly at the level of Chief Secretary. The actions taken are presented below:

4.3.1 Construction and Demolition Waste Processing Facilities in Delhi:

The status of Construction and Demolition Waste management in Delhi is being reviewed regularly at the level of Chief Secretary. The present status is given below.

Construction and Demolition Waste Processing Facilities in Delhi:

Approximately 3900 TPD of Construction and Demolition Waste (C&D Waste) is generated in Delhi which requires dedicated handling mechanism and disposal thereof. Accordingly, separate collection and transport infrastructure of C&D Waste has been set up under which the C&D Waste is collected at ear marked sites identified by the 3 Municipal Corporations (North DMC, EDMC & SDMC), New Delhi Municipal Council (NDMC) & Delhi Cantonment Board (DCB) and the same is transported to the 3 Construction and Demolition Waste Processing / Recycling Facilities / Plants functioning in Delhi. The existing capacity of Construction and Demolition Waste Processing / Recycling plants in Delhi is 2650 TPD. The details are given in the table below.

Table: Existing C & D Waste Processing Facilities

S. No.	C & D Waste Processing Facility	Existing Capacity (in TPD)	Proposed Expansion for Additional Waste Processing Capacity (in TPD)
1	North DMC C & D Waste Processing Facility at Jahangir Puri (Being operated by IL&FS)	2000	---
2	East DMC C & D Waste Processing Facility at Shastri Park (Being operated by IL&FS)	500	500
3	DMRC C & D Waste Processing Facility at DMRC Site Rani Khara (Being operated by IL&FS)	150	---
	Total	2650	500

Table: Proposed new C & D Waste Processing facilities

S. No	Proposed Site of C& D Waste Processing Facility	Proposed Waste Processing Capacity (in TPD)
1	Bakkarwala (South DMC)	500 (by March, 2020) (expanding upto 1000 TPD)
2	Maidangarhi (South DMC)	1000
2	Ranikhera (North DMC)	1000 (by June, 2020)
4	Libaspur(PWD)	500
	Total	3000

4.3.2 Present status:

Paver Blocks, Kerb Stones, Bricks, Aggregates, Sand and Soil of BIS standards are being produced out of the C&D waste which are further used in the infrastructure projects, thus fresh requirement of natural resources is minimized. With the existing and proposed processing facilities, it is expected that the entire C&D waste generated in Delhi will be managed properly in a scientific manner and there will be sufficient capacity to manage C & D Waste in Delhi. Regarding use of Recycled Products from C & D Waste, Department of Urban Development, Govt. of NCT of Delhi has issued Order Dated 06.07.2016 for compliance by all Municipal / Local Govt. Bodies in Delhi, Public Works Department, Irrigation & Flood Control Department, DSIIDC, DJB & Departments and Organisations of GNCTD involved in Construction / Maintenance of Civil Works.

In the meeting held on 24.04.2019, Annual off take target of total 16.07 Lakh Metric Tons was fixed by the Ministry of Housing & Urban Affairs (MoHUA), Govt. of India for various agencies for off take of C & D Recycled Materials in the Financial Year 2019 – 2020. Further, a meeting of various departments regarding off take of C & D Recycled Materials and use of Recycled Products from C & D Waste was convened by the Principal Secretary (Environment) Cum Chairman, DPCC on 02.01.2020. Directions under section 5 of the Environment (Protection)

Act, 1986, read along with the Construction and Demolition Waste Management Rules, 2016, were issued to various Govt. Departments / Agencies on 14.01.2020. DO Letters have been issued by the Chief Secretary, Govt. of NCT of Delhi on 15.01.2020 to National Highways Authority of India (NHAI), Central Public Works Department (CPWD), NBCC(India) Limited, Delhi Development Authority (DDA) for taking action to overcome/redress the problem of accumulated C&D Waste (both Processed & Unprocessed) lying at the C&D Waste Processing Facilities in Delhi.

Department wise procurement / utilization of products made from Construction & Demolition Waste by the 3 operational Construction and Demolition Waste Processing Facilities of M/s IL & FS Environmental Infrastructure & Services Limited in Delhi (at Jahangirpuri / Burari, Shastri Park and Mundka) in the period of 01.04.2019 to 15.02.2020 is at **ANNEXURE-III.**

DPCC deployed Night Patrolling Teams for detection of unauthorized dumping of C & D Waste in Industrial Areas of Delhi from 28.09.2019 to 28.10.2019, 76 violations were observed for which Environmental Compensation of Rupees 8.4375 Crores was imposed on various Agencies. Directions were issued to these agencies to clear unauthorized dumps within 24 hours.

4.4 Compliance to Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016

A. STATUS OF HAZARDOUS WASTE GENERATING UNITS IN DELHI.

Hazardous waste is generated from the Industries / Units and CETPS in Delhi and dealt as per the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Hazardous waste generation in Delhi is briefed in following Table:

S.No	Particulars	Quantity
1.	No. of Hazardous Waste Generating units in Delhi	1781
2.	Hazardous Waste Generation including CETP sludge (in Tonnes per day)	15.01 TPD (CETP - 6.5677 TPD Industries/ Units - 8.4423 TPD)
3.	Hazardous Waste Generation including CETP sludge (in Tonnes per Annum)	5478.9 TPA (CETPs - 2400 TPA Industries /Units - 3078.9 TPA)
4.	Landfillable Hazardous Waste including CETP Sludge	4903.883 TPA (CETP - 2400 TPA Industries /Units - 2503.883 TPA)
5.	Recyclable Hazardous Waste (from Industries/ Units)	541.527 TPA
6.	Incinerable Hazardous Waste (from Industries /Units)	33.4738 TPA
7.	Total Landfillable Hazardous Waste including CETP Sludge stored within the premises of Industries / Units / CETPs	41697 MT (As on 31.03.2019) (CETPs - 35480 Tons Industries /Units - 6217 Tons)

8.	Recyclable Hazardous Waste (from Industries /Units)	746 Tons (As on 31.03.2019)
9	Incinerable Hazardous Waste (from Industries/Units)	23.75 ons (As on 31.03.2019)
10	Treatment Storage and Disposal Facility (TSDF)	None (at present) (TSDF proposed to be developed at Bawana)

(B). Existing Practice for Management & Disposal of Hazardous Waste

Since at present there is no Treatment, Storage and Disposal Facility (TSDF) for Hazardous Waste (TSDF) in Delhi, Industries / Units and CETPs are storing their Hazardous Waste (ETP/CETP Sludge etc.) at the site. Authorization has been given by DPCC to following two Operators of TSDF for Hazardous Waste in Uttar Pradesh (Kanpur Dehat) for Collection, Reception, Transportation and Disposal of incinerable hazardous waste generated by the units operating in NCT of Delhi:

- (i) M/s Bharat Oil and Waste Management Ltd (TSDF at Gata No. 672, Village Kumbhi, Tehsil-Akbarpur, District- Kanpur Dehat, Uttar Pradesh- 209101).
- (ii) M/s Uttar Pradesh Waste Management Project (a division of M/s Ramky Enviro Engineers Ltd.) (TSDF at Plot No. 672, Village Kumbhi, Tehsil-Akbarpur, District- Kanpur Dehat, Uttar Pradesh- 209101).

Besides above, Authorization under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 has been granted to Gujrat Enviro Protectoin & Infrastructure Limited, for collection, transportation, pre-processing, co-processing and disposal of sludge from CETPs in Delhi to its facility at Chittorgarh in Rajasthan.

(C) Development of Treatment, Storage and Disposal Facility (TSDF) for Hazardous Waste at Bawana :

At present there is no Treatment, Storage and Disposal Facility (TSDF) for Hazardous Waste (TSDF) in Delhi. In the matter of Balam Singh Rawat vs Govt. of NCT of Delhi & Ors, Hon'ble NGT directed vide its order dated 30.03.2015 that the TSDF Project is to be developed by DSIIDC in collaboration with DPCC. Accordingly, 14 Acres of land for development of TSDF at Bawana was handed over to DSIIDC by Department of Environment after obtaining it from North Delhi Municipal Corporation (North DMC). Subsequently the approval of Delhi Cabinet was sought for setting up of TSDF at Bawana. DPCC has made a payment of Rs. 44.10 Crore to North DMC on account of cost of Land for setting up of TSDF at Bawana. An amount of Rs. 8.05 Crores has also been given to DSIIDC as grant in aid towards 50 % of Capital cost of TSDF.

DSIIDC invited Request for Proposal for the development of TSDF in December 2017 but only one bidder participated. Hence, the RFP was re-invited in Feb-2018. This bid was also rejected being a single bid on 19.12.2018. Further, RFP was invited third time by DSIIDC on 26.12.2018 in which two bidders participated. One of the bidders namely M/s SMS Ltd., who participated in the bids invited in February, 2018, had filed a case before Hon'ble High Court of

Delhi against rejection of their bid. The Hon'ble High Court has dismissed the writ petition on 09.10.2019.

Hon'ble NGT vide order dated 19.11.2019 in the matter of "All India Lokadhikar Sangathan Vs Govt. of NCT of Delhi & Ors." (OA No. 159/2013) with "M/s Ashok Vihar Mitra Mandel Vs Govt. of NCT of Delhi & Ors." (OA No. 77/2016), has directed to set up TSDF in Delhi by June, 2020. DSIIDC has awarded the work of development of Treatment, Storage and Disposal Facility

(TSDF) for Hazardous Waste at Bawana, Delhi to M/s Tamil Nadu Waste Management Limited (M/s TNWML) on 30.11.2019. The project shall be completed in 15 months time however M/s TNWML has been requested to start operation of facility from June, 2020 as per the directions of Hon'ble NGT. MoEF & CC vide letter dated 06.01.2020 has given Terms of Reference (TOR) for Environmental Clearance for the said project. M/s TNWML is taking further necessary action.

(D) Action Taken by DPCC w.r.t Compliance of H&OWM Rules, 2016

Following action has been taken by DPCC for the Compliance of H&OWM Rules, 2016

- 1) 1781 generating Hazardous Waste units were issued Show cause notices to file Annual Return by 30th June, 2019.
- 2) 130 Show Cause notices u/s 5 of EP(A) and 24 closure directions u/s 5 of EP(A) have been issued to units for violation under HOWM, Rules, 2016 with effect from 01.04.2018 to 31.03.2019.
- 3) Consent to operate or its renewal is only decided after inspection of the unit complying under HOWM, Rules 2016 since, HOWM rules has come into force on 04.04.2016.
- 4) Inspection Report as per new CPCB format has been adopted for inspection of Hazardous Waste Generating Units.
- 5) I.T Cell of DPCC is taking following actions with respect to updation of DPCC website in compliance of directions of Hon'ble NGT order dated 12.04.2019.
 - a) A separate section in the website of DPCC should be created where copy of all authorization issued by DPCC shall be uploaded along with inspection report.
 - b) To make provision for online submission of Hazardous Waste Annual Returns in form-IV and SPOs for their monitoring by the concern cell.
 - c) Urgent updation of DPCC website with respect to all enforcement actions along with details of industries and action taken is needed.
- 6) The units which will not file Annual Return by 30.06.2019 and units found to be violating HOWM Rules, 2016 during inspections shall be liable for penalty u/s 23 of EPA as per CPCB "Guidelines on Implementing Liabilities for Environmental Damages due to Handling and disposal of Hazardous Waste and Penalty".
- 7) In compliance of CPCB Directions u/s 5 of EP(A) Dated 19.05.2016, the Authorization under Hazardous and Other Waste (M&H) Rules, 2016 are not being issued w.e.f 31.07.2017.
- 8) The annual report and other information for the year 2016-2017 and 2017-2018 have already been sent to CPCB. The information on queries/gaps raised by CPCB has also been provided.
- 9) The annual inventory of Hazardous waste has been sent as per the guidelines and format prescribed by CPCB.

- 10) 1781 units have been issued direction to install Digital Display Board in compliance to the direction of CPCB vide letter dated 07.10.2019.
- 11) 577 units have been issued show cause notice for not filling the annual return in time in compliance to the direction of CPCB vide letter dated 22.11.2019.
- 12) 86 units were inspected by DPCC to check the compliance of HOWM Rules, 2016 with emphasis to check the data of the unit as per their annual return. Out of which 30 units were found defaulting to whom Show Cause Notice have been issued.

Information in the format provided by CPCB in respect of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 is at **ANNEXURE-IV**

4.5 Compliance to E-Waste (Management) Rules, 2016:

4.5.1 Electronic Waste Management

- It is estimated that about 30000 Tons of E-Waste is generated in Delhi per year.
- The collection and disposal of E-waste in Delhi is being managed by the authorized producer/ recycler through the designated collection centers/ points for disposal of E-waste facilities as reported in the EPR, which are issued by CPCB on pan India basis.
- DPCC is not issuing the authorization to stand alone collection centers for storage/collection of E-waste in Delhi.
- To facilitate the bulk consumer/ common people, DPCC has prepared the list of 40 recyclers for E-waste in NCR and 61 collection centers under EPR in Delhi and the lists have been uploaded on the DPCC website for information of the stakeholders.
- DPCC has a mandate to issue authorization under E-waste Rules 2016 to dismantler/ re-furbisher. DPCC has issued authorization to four re-furbisher facilities.
- As per the Master Plan of Delhi 2021, Recycling / Reprocessing of E-Waste is not allowed in NCT of Delhi, the E-Waste goes to the Recycling / Reprocessing facilities in the neighbouring States. However, there is an urgent need to have E-waste recycling/processing units in Delhi so that illegal transportation / procurement /processing/ usage could be checked and controlled by DPCC.
- In view of the Hon'ble Supreme Court judgment dated 07.05.2004 in WP (C) 4677 of 1985, M.C. Mehta Vs. UOI & Ors and decisions taken by the Chief Secretary in the meeting held on 13.09.2018, Action on industries operating in non- conforming areas and violating Master Plan is to be taken by the land owning agencies (DMCs/DDA).
- Directions under section 5 of EP Act have been issued to all the Municipal Corporations / Local Bodies for closing down all illegal E- Waste procurement/ processing activities.
- DPCC has constituted 9 teams headed by SDMs in 3 East, North-East & Shahdara districts consisting representatives from EDMC, Delhi Police and DPCC. The teams are working in areas including Mandoli area. These teams have effectively closed 31 units engaged in illegal E-waste procurement and processing. Apart from this, 36 units in Bhagirathi Vihar

and 57 units in Seelampur have already been effectively closed. However no illegal E-waste processing units were found in Mandoli area.

Information in the format provided by CPCB in respect of E-Waste (Management) Rules, 2016 is at **ANNEXURE-V.**

4.6 351 Polluter Stretches in the Country.

In compliance to the order dated 20.09.2018, the River Rejuvenation Committee (RRC) for Delhi has been constituted vide order dated 22.10.2018 for preparation of the Action Plan for rejuvenation of 22 km stretch of river Yamuna (Wazirabad to Asgarpur village). The following is the constitution of the Committee:

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

The RRC is to function under the overall supervision and coordination of Secretary (Environment), Govt. of NCT of Delhi. As per the directions of the Hon'ble National Green Tribunal, RRC has to prepare action plan for bringing the polluted river stretch to be fit at least for bathing purposes (i.e. BOD < 3 mg/L and FC < 500 MPN/ 100 ml).

The meetings of the RRC Delhi were held from time to time and Action Plan / Revised Action Plans as per the suggestions of Task Team of CPCB were submitted to CPCB vide letters dated 29.01.2019, 03.04.2019, 01.08.2019 & 22.11.2019. Revised Action Plan for rejuvenation of river Yamuna has been prepared by RRC Delhi considering the observations of the Task Team of CPCB in the meeting held on 27.12.2019 and the Revised Action Plan has been submitted to CPCB on 21.02.2020.

Information in the format provided by CPCB in respect of Compliance to Hon'ble NGT Directions for Control of River Pollution is at **ANNEXURE-VI.**

4.7 122 Non-attainment Cities:

In compliance to the order dated 08.10.2018, an Air Quality Monitoring Committee (AQMC) was constituted comprising of Directors of the following Departments of NCT of Delhi:

1. Department of Environment, Govt. of NCT of Delhi
2. Transport Department, Govt. of NCT of Delhi
3. Industries Department, Govt. of NCT of Delhi
4. Urban Development Department, Govt. of NCT of Delhi
5. Department of Agriculture, Govt. of NCT of Delhi
6. Member Secretary, Delhi Pollution Control Committee (DPCC)

AQMC had to prepare appropriate action plans within two months aimed at bringing the standards of air quality within the prescribed norms within six months from date of finalization of the action plans as per directions contained in the order. The AQMC to function under the overall supervision and coordination of Secretary (Environment), Govt. of NCT of Delhi.

After taking comments of all stakeholder Departments, Action plan was finalized by AQMC and sent to CPCB on 19.12.2018. AQMC after taking inputs from all concerned departments had concluded that both CAP and GRAP are being implemented in Delhi along with 41 directions issued by CPCB under Air Act by various implementing agencies for controlling air pollution in Delhi. Preparation of another action plan with respect to Delhi will be a duplicate exercise and may not be desirable for Delhi as the implementation of these plans is being monitored at different levels at Government of NCT of Delhi, EPCA, CPCB, MOEF&CC, GOI and by Prime Minister's Office.

Central Pollution Control Board (CPCB) vide its letter dated 12th February, 2019 communicated that the Action Plan prepared by Air Quality Monitoring Committee (AQMC) has been approved with some remarks. CPCB has suggested for making broad estimates for financial layout. Progress report of Action Plan prepared by AQMC has to submit to CPCB on quarterly basis. Financial layout on Air Action Plan received from concerned departments has been sent to CPCB on 21.05.2019. Thereafter, First quarter progress report of Air Action Plan has been sent to CPCB on 31.05.2019. Besides, second quarter progress report of Air Action Plan has also been sent to CPCB on 24.09.2019.

Compliance to order dated 15.03.2019

This order has reference to previous NGT orders in OA 519 of 2016, Hardeep Singh & Ors vs SDMC pertaining to Noise Pollution Control. Noise Pollution Control Action Plan was to be finalized by 15.06.2019 and to be submitted to CPCB by 30.06.2019.

In compliance to the above said order draft Action Plan for Noise Pollution Control was prepared after incorporating the inputs from DPCC & all other stakeholder departments and has been sent to CPCB for necessary approval.

Compliance to order dated 06.08.2019

In compliance to NGT order dated 06.08.2019, matter regarding notification on Noise Limiters need to be installed on potential noise polluting devices, including retrofitting the existing devices is under process. The order has been sent to all stakeholder departments for necessary compliance.

Further, a meeting was held on 03.10.2019 to discuss the implementation of Noise Pollution Control Action Plan prepared in Compliance to Directions of the Hon'ble NGT in the Order Dated 15.03.2019 in the said matter (OA No. 681/2018). Noise Pollution Control Action Plan has already been sent to all stakeholder Departments. Municipal Corporations were directed to immediately identify noise hotspots as per area jurisdiction and convey to Department of Environment / DPCC. The technical specifications of Noise meters to be procured is still awaited from CPCB, which when received will be forwarded to all concerned stakeholders. All designated authorities under Noise Rules i.e. DM, Revenue Deptt, SDMs, Asstt Commissioners, Police Control Room & Traffic, all sub-divisional Police officers including Railways and Airports and DPCC to ensure strict implementation of the Noise Rules and compliance to Hon'ble Supreme Court directions in WP (C) No. 728/2015 keeping in view the forthcoming Dussehra and Diwali festivals.

A workshop on "Implementation of the Noise Pollution (Regulation & Control) Rules was held specifically for designated authorities under Noise rule on 13.11.2019. Workshop also had hands on training of Noise Meter by DPCC Air Lab and presentation on recently launched 24x7 helpline by Delhi Police and on web portal by NIC.

Compliance to order dated 15.11.2019

Noise Limiter notification has been published in Delhi Gazette on 21.11.2019 and issued to concerned departments for necessary implementation.

Third quarter progress report (September to November 2019) of Air Action Plan i.e, Comprehensive Action Plan (CAP) has been compiled after taking inputs from concerned stakeholder departments and will be sent to CPCB after necessary approvals.

4.8 100 Industrial Clusters.

In compliance to the orders of Hon'ble NGT, DPCC has constituted a Committee comprising of various Departments on 20.02.2019 for preparation of the said action plan for the critically polluted area of Najafgarh Basin including Anand Parbat, Wazirpur, Narela and Okhla industrial clusters. In Delhi, clusters of Comprehensive Environmental Pollution Index (CEPI) >70 is Najafgarh Drain Basin including Anand Parbat, Narela, Okhla and Wazirpur. DPCC has prepared the Action Plan for critically polluted areas of Delhi. The Action Plan has been sent to CPCB vide letter Dated 16.04.2019.

Subsequently, the Hon'ble NGT directed for closure of polluting units falling under Red & Orange category within 03 months vide orders dated 10.07.2019. Afterwards, CPCB filed a review petition against these orders. Hon'ble NGT vide order Dated 19.08.2019 has clarified that only those units have to be closed which are not meeting the environmental norms. Hence, DPCC is in the process of identifying the units which are not meeting the environmental norms.

4.9 Status of Sewage Treatment Plants and Re-use of Treated Water :

4.9.1 Sewage Generation & Treatment

As reported by Delhi Jal Board (DJB), about 3273 MLD (720 MGD) of sewage is being generated on the basis of water supply of about 4091 MLD (900 MGD) as per CPHEEO norms. The quantum of water supply will remain static unless the upstream storage dams like Renuka, Lakhwar Vyasi and Kishau are completed. As per the data of CPCB for waste water discharge and BOD Load from major drains into river Yamuna at Delhi for the year 2019 (as mentioned in the 3rd Interim Report of the Yamuna Monitoring Committee appointed by Hon'ble NGT), about 3026 MLD (about 666 MGD) of waste water is discharged into the River Yamuna and about 264 TPD is the pollution load in terms of BOD. Accordingly, the actual waste water out falling into river Yamuna from Delhi area is about 2464 MLD (542 MGD). Present installed sewage treatment capacity is 2714 MLD (597 MGD) and 2273 MLD (500 MGD) is being treated and the actual treatment will further increase after the commissioning of ISP in March, 2020 onward, which will result in a phased increase in the total wastewater treatment by Delhi to 3214 MLD (707 MGD) by December 2022.

Information in the redesigned format provided by CPCB in respect of Sewage Management is enclosed as **ANNEXURE-VII.**

4.9.2 Trapping of Drains

Status of trapping of drains by Delhi Jal Board is as follows :

There are 18 major drains out falling into river Yamuna. Out of 18 major drains 2 drains i.e. Najafgarh drain (including supplementary drain) and Shahdara drain are being trapped under the Interceptor Sewer Project by DJB. In case of remaining 16 major drains , 11 Drains have already been trapped, 2 are partially trapped and in case of 3 drains action plan is proposed by DJB to trap the waste water from these drains.

(1) Two major drains outfalling into River Yamuna : Najafgarh (+Supplementary) and Shahdara Drain

Under Interceptor Sewer Project (ISP), **108 Nos of the drains are to be trapped** and provision of **trapping of about 1100 MLD (242 MGD) flow is being made.** These 108 drains are in command areas of Najafgarh, Supplementary and Shahdara drains. 63 Drains have been trapped and the balance will be trapped by March,2020 . 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.

(2) Trapping of Other 16 Drains :

Out of remaining 16 drains, 11 drains have already been trapped and sewage is being treated in nearest STPs , 2 drains (Tonga Stand Drain & Dr. Sen Nursing Home Drain) are partially trapped . The remaining 03 drains carry a discharge of about 216 MLD (47.5 MGD) for which action plan has been prepared and given in following Table :

S. No	Name of the Drain	Timeline for Trapping	Remarks
1.	Barapulla Drain	30.09.2022	Short term measures already taken. Long term measures will be taken after allotment of land by DDA
2.	Qudsia Bagh + Morigate Drain	36 months after allotment of land by DDA	Short term measure is not technically feasible
3.	Maharani Bagh Drain	Short Term– By 31.12.2019 Long Term - By 31.12.2021*.	The trapping has been completed as short term measure to trap part flow. The balance flow will be trapped by 31.12.2021as long term measure.

4.9.3 Brief Status of 56 Decentralised STPs proposed by DJB

S.No	Name of STP	Proposed Timeline	Remark
1.	14 (7+7) STPs in Najafgarh Drainage Zone	18 to 30 Months* after approval of funding of balance STP by NMCG and allotment of land	Out of 14 locations, land is available only at 06 locations and land at balance 08 locations is yet to be allotted.
2.	42 No. of Decentralized STPs at various locations.	24 to 36 Months* after allotment of land	Land for construction of 42 DSTPs and 07 SPS have been identified at various locations and it is still in the process of allotment by Revenue department of GNCT Delhi/DDA. Necessary action will be taken by DJB after allotment of land.

4.9.4 Sewage Treatment and Timelines for Enhancing Capacity of STPs

S. No.	Description	December, 2019	December, 2020	December, 2021	December, 2022	December, 2025	December, 2031	Remarks
1.	Sewage generation	720 MGD (3273 MLD)	720 MGD (3273 MLD)	720 MGD (3273 MLD)	720 MGD (3273 MLD)	800 ⁺ MGD (3637 MLD)	1062 MGD (4828 MLD)	Theoretical sewage discharge as per CPHEEO Manual, 80 % of total water supply which is expected to be about 1000 MGD in the year 2025. *In addition the sewage will be generated from outer Delhi areas for which DSTPs are proposed.
2.	Installed Sewage treatment capacity	597* MGD (2714 MLD)	637 MGD (2896 MLD)	657 MGD (2987 MLD) #	707## MGD (3214 MLD)	831*** MGD (3778 MLD)	1106 MGD (5028 MLD)	*The capacity reduced from 617 to 597 MGD (2804 to 2714 MLD) due to shutting down of 20 MGD (90.9 MLD) unit at Rithala taken up for rehabilitation **After commissioning of Coronation Pillar STP [70 MGD (318MLD)] #After rehabilitation of Rithala STP [40 MGD (181.9 MLD)] ##After commissioning of Okhla STP [140 MGD (636.5MLD)] & Rehab. of Kondli STP (10+10+25=45MGD)

S. No.	Description	December, 2019	December, 2020	December, 2021	December, 2022	December, 2025	December, 2031	Remarks
3.	Actual Sewage treatment	540* MGD (2455 MLD)	607# MGD (2759 MLD)	627## MGD (2850 MLD)	707 MGD (3214 MLD)	800 MGD (3637 MLD)	1062 MGD (4828 MLD)	ISP will be commissioned by March, 2020 but actual treatment will be possible after rehabilitation / construction of some of the STPs under its command i.e. Kondli, Rithala, Coronation Pillar *After commissioning of ISP Package 5,6 & Pkg. 3 (partial) **After part commissioning of Package 3 & 4 of ISP #After full commissioning of ISP Package 3 & 4 and interconnecting Rithala STP to Rohini STP ## After commissioning of Rithala STP, the flow of Pkg. 3 of ISP will be fully trapped.
4.	Capacity utilization (%age)	90.45	95.3	96.2	100*	100	100	Capacity Utilization of some of the STPs like Ghitorni, Kapashera, Vasant Kunj, Mehrauli, Najafgarh, Narela is less due to fact that development of the area has not taken place as anticipated in the DDA Master Plan. *The Existing plants can treat excess flow upto 5-10% of installed capacity.

Note: There is no possibility of increase in raw water sources in near future. Therefore, the only option available is to rationalise the available water supply to meet the increased demand.

***DJB has planned to install 56 DSTPs in outer Delhi areas having capacity of 92 MGD and by augmenting Rohini STP to 25 MGD, Sonia Vihar STP by 7 MGD. Thus the total installed capacity will increase to 831 MGD.*

4.9.5 Summarised Proposed Action Plan for Sewage Treatment by Delhi Jal Board

Action points/ Particulars	Sub Action Points	Proposed Timeline
(i) Completion of Interceptor Sewer Project (ISP) (1100 MLD)(242 MGD)	Laying of Interceptor Sewer along three major drains Najafgarh, Supplementary & Shahdara for abatement of pollution in River Yamuna (For Trapping 1100 MLD (242 MGD) waste water)	31.03.2020
(ii) Trapping of partially/untrapped Drains	(a) Tonga Stand Drain [1.7 MLD (0.38 MGD)]	18 months from the date of allotment of land from DDA
	(b) Sen Nursing Home Drain [9.5 MLD (2.1 MGD)]	31.03.2020
	(c) Shahdara Outfall Drain	31.03.2020

	(d) Qudsia Bagh+Mori gate Drain [41 MLD(9MGD)]	Three years after allotment of land by DDA for construction of STP
	(e) Barapulah Drain [145 MLD (32 MGD)]	30.09.2022
	(f) Maharani Bagh Drain [29.5 MLD (6.5 MGD)]	31.12.2021
	(g) Sonia Vihar Drain, Kailash Nagar Drain Shastri Park Drain, Abul Fazal Drain & Jaitpur Drain	Various timelines as proposed by DJB.
(iii) Rehabilitation / Upgradation of STPs [Total 1268 MLD (279 MGD) Capacity] (for BOD 10mg/l & TSS10mg/l)	(a) Kondli STP Ph-I [45.46 MLD (10 MGD)]	12 Months after tree cutting permission.
	(b) Kondli STP Ph-II [113.6 MLD (25 MGD)]	31.07.2022
	(c) Kondli STP Ph-III [45.46 MLD (10 MGD)]	12 Months after tree cutting permission.
	(d) Yamuna Vihar STP Phase-II [45.46 MLD (10 MGD)]	31.03.2022
	(e) Okhla STPs Phase I, II, III & IV	31.12.2022
	(f) Rithala Ph-I [181.8 MLD (40 MGD)]	31.12.2021
	(g) Keshopur Phase-II [90.9 MLD(20MGD)] & Phase III [181.8 MLD (40 MGD)]	3 to 4 Years from the date of availability of funds
(iv) Upgradation of Balance 16 existing STPs [Total capacity 1582 MLD(348.06 MGD)] (for BOD - 10mg/l & TSS- 10mg/l including Bio-Nutrient & Pathogen removal & Sludge management)	16 STPs .	3 to 4 years from the date of availability of Funds
(v) New Proposed STPs	(a) Construction of 318 MLD (70 MGD) STP at Coronation Pillar	50% liquid stream along with 4 digesters by 31.07.2020 & entire plant by 31.10.2020.
	(b) Decentralised 14 STPs of 709 MLD (156 MGD) Capacity at different locations	
	(c) 14 Decentralized STPs in Najafgarh area [169 MLD (37.2 MGD)]	18 to 30 Months after approval of funding of balance STPs by NMCG and allotment of land.
(vi) Augmentation of Sewage Treatment Capacity	Upto 2896 MLD (637 MGD)	31.12.2020
	Upto 2987 MLD (657 MGD)	31.12.2021
	Upto 3214 MLD (707 MGD)	31.12.2022
(vii) Treatment of Sewage	Upto 2455 MLD (540 MGD)	31.03.2020
	Upto 2691 MLD (592 MGD)	31.10.2020
	Upto 2759 MLD (607 MGD)	31.12.2020
	Upto 2850 MLD (627 MGD)	31.12.2021
	Upto 3214 MLD (707 MGD)	31.12.2022

4.9.6 In-situ Bio-remediation / Phyto-remediation of Sewage in Drains

Based on the chamber meeting taken by Hon'ble NGT on 03.01.2020, discussions held with various stake holders including CPCB, DJB, YPMC, NEERI etc. and reports of Yamuna Pollution Monitoring Committee including Report on "Approach to In-situ Bio-remediation / Phyto-remediation of sewage in drains of Delhi", Hon'ble NGT vide order dated 22.01.2020 has passed detailed order and summed up the directions given in the said order at Para 27. Various Drain owning / maintaining agencies in Delhi (DDA, DSIIDC, PWD, Irrigation and Flood Control Department, Cantonment Board; NDMC; South, East and North Delhi Municipal Corporations) have been directed to furnish their response with respect to the issues mentioned in the said order. CPCB has also been asked to furnish a report in terms of Para 25 of the said order.

Necessary action shall be taken by the Drain owning / maintaining agencies in consultation with CPCB as per the directions of Hon'ble NGT in OA No. 673/2018 and order dated 22.01.2020 in OA No. 06 / 2012 in the matter of Manoj Mishra Vs. UOI & Ors.

4.9.7. Utilization of Treated Wastewater of STPs

At present out of 2273 MLD (500 MGD) treated effluent, Delhi returns 1212 MLD (267 MGD) as a return flow to River Yamuna as per MOU of 1994 and 409 MLD (90 MGD) is being used for Irrigation/ Horticulture/Industrial purposes. DJB has further planned to use about:-

- (i) 45.5 MLD (10 MGD) is proposed to be used for Water Bodies, Parks, Ground water Recharge and to be used by other agencies by 2020.
- (ii) 895.6 MLD (197 MGD) is proposed to be used as a raw water source at Wazirabad (Coronation Pillar, Rohini, Narela, and Rithala & Keshopur) by 2021, subject to approval of Upper Yamuna River Board (UYRB).
- (iii) 509 MLD (112 MGD) is proposed to be used for irrigation purposes in U.P. in by 2022 which is subject to consent of U.P. Irrigation Department – Govt. of U.P. in lieu of raw water supplied for proposed 636 MLD (140 MGD) WTP at Sonia Vihar.
- (iv) 45.5 MLD (10 MGD) from Nilothi STP is proposed to be supplied to Haryana Irrigation Department at Jaunti Regulator for irrigation purposes. In lieu of that DJB seeks to receive 45.5 MLD (10 MGD) spare raw water from H.I.D to meet its drinking water needs, it is subject to clearance from UYRB.
- (v) 45.5 MLD (10 MGD) from Rithala STP is proposed to be supplied to Haryana Irrigation Department at Auchandi Regulator for irrigation purposes. In lieu of that DJB seeks to receive 45.5 MLD (10 MGD) spare raw water from H.I.D to meet its drinking water needs, it is subject to clearance from UYRB.
- (vi) 9 MLD (2 MGD) from Okhla STP Phase-VI shall be taken to the abandoned Bhati Mines for ground water recharge. The work shall be completed by 30-11-2023.
- (vii) DJB has continuously pursued and data have been received from various agencies like Municipal Corporations, NDMC, DDA and CPWD etc. about various parks maintained by them along with latitude & longitude of the parks.
- (viii) The data/ locations of parks received from various agencies have been plotted on the map and number of parks identified which are falling within the radius of 5 Km of the DJB STPs.

- (ix) DJB has written to respective stakeholders/ park owning agencies requesting them to start taking treated effluent from DJB STPs for the parks which are falling within the radius of 5 Km of DJB STP by tankers as an interim arrangement. DJB has installed filling points at its all major STPs for filling the tankers.
- (x) DJB has written to respective District Magistrate to seal the bore-well of various agencies that are using ground water instead of treated waste water for Horticulture purposes.
- (xi) Further DJB has also prepared DPRs for supply of treated effluent through pipe network from different STPs for horticulture purposes as per the demand given by various stakeholders. The DPRs have been sent to all stakeholders for their comments and implementation on 16.12.2019.
- (xii) 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 155 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.

4.10. Status of CETPs/ETPs including Performance:

4.10.1 Industrial Effluent Management

There are 1516 ETPs installed in various Industries / Units in 28 Approved Industrial Areas. Total waste water discharge from the 28 Approved Industrial Areas is 35.98 MLD. DPCC is taking action against the violating Industries/ Units including Water Polluting Industries / Units and imposes Environmental Compensation (EC) on the Polluter Pays Principal. Action taken by DPCC against the Industries / Units and Environmental Compensation (EC) imposed have already been informed to the Hon'ble NGT vide Action Taken Report filed before the Tribunal on 01.08.2019 and 10.12.2029 in OA No. 06/2012 in the matter of Manoj Mishra Vs. Union of India & Ors.

4.10.2 Common Effluent Treatment Plants (CETPs) & their Treatment Capacities

There are 13 CETPs to cater the wastewater generated from 17 Approved Industrial Areas with total treatment capacity of 212.3 MLD. CETPs have been designed to treat mix waste i.e. sewage and industrial effluent generated from the Industries / Units in their respective Industrial Areas. Rest of the 11 Approved industrial areas out of 28 Approved Industrial Areas are not having CETPs as they are not generating substantial liquid waste. The units which are operational in non-CETP industrial areas have individual Effluent Treatment Plant (ETP) / waste water treatment facilities. List of CETPs their Treatment Capacities & Mode of Discharge is given in the following Table :

List of CETPs, their Treatment Capacities & Mode of Discharge

S. No	Name of CETP	Industrial Areas connected with CETP	Installed Capacity (in MLD)	Average Flow (in MLD)	Mode of Discharge
1	Jhilmil CETP	Jhilmil and Friends Colony Industrial Areas	16.8	5.5	PWD Drain leading to Shahdara Drain
2	Badli CETP	Badli Industrial Estate	12	1.92	Supplementary Drain leading to Najafgarh Drain
3	Mayapuri CETP	Mayapuri Industrial Area	12	2.25	PWD Drain leading to Najafgarh Drain
4	Mangolpuri CETP	Mangolpuri Industrial Area	2.4	1.5	Supplementary Drain leading to Najafgarh Drain
5	Wazirpur CETP	Wazirpur Industrial Area	24	2	Najafgarh Drain
6	Nangloi CETP	Nangloi & Udyog Nagar Industrial Areas	12	2.71	Supplementary Drain leading to Najafgarh Drain
7	SMA CETP	SMA, Rajasthani Udyog Nagar & SSI Industrial Areas	12	1.5	Najafgarh Drain
8	Okhla CETP	Okhla Industrial Area	24	2.715	Sarita Vihar Drain
9	Narela CETP	Narela Industrial Area	22.5	10.8	Supplementary Drain leading to Najafgarh Drain
10	Bawana CETP	Bawana Industrial Area	35	19.0	Supplementary Drain leading to Najafgarh Drain
11	Naraina CETP	Naraina Industrial Area	21.6	5.1	Najafgarh Drain
12	GTK Road CETP	GTK Road Industrial Area	6	2.5	Najafgarh Drain
13	Lawrence Road CETP	Lawrence Road Industrial Area	12	1.0	PWD Drain leading to Najafgarh Drain
		Total	212.3MLD (46.7 MGD)	53.395 MLD (11.75 MGD)	

CETPs are over designed. Against the 212.3 MLD (46.7 MGD) capacity of all the 13 CETPs 53.4 MLD(11.75 MGD) effluent is reaching to CETPs (Capacity utilization is about 25%). All the 13 CETPs are being monitored by DPCC Laboratory on monthly basis and Analysis Reports are placed on the website of DPCC. Inspections of the CETPs are carried out on quarterly basis and deficiencies observed, if any, during the inspections are conveyed to the CETP Societies/operator of CETPs for rectification of the deficiencies. 11 CETPs are being run by respective CETP Societies and CETPs at Bawana and Narela Industrial Areas are being operated and maintained by DSIIDC through concessionaires engaged for the maintenance of these two industrial areas. CETP Societies are operating and maintaining the CETPs as per the provisions of Delhi Common Effluent Treatment Plants Act, 2000 and Delhi Common Effluent Treatment Plants Rules, 2001. Compliance status of CETPs in Delhi is given in following Table:

Brief of Analysis Reports of DPCC Lab for CETPs for the Month of December, 2019.

S. No	Name of CETP	Date of Sampling	Influent Quality at Inlet (in mg/l)	Effluent Quality at Outlet (in mg/l)	Brief of Analysis Report (For Treated Effluent)
1	Jhilmil CETP	02.12.2019	pH -6.6 TSS - 560 BOD - 120 COD - 368 TDS - 2820 Ni- 3.64	pH -7.3 TSS - 58 BOD - 32 COD - 236 TDS -1730 Ni - 3.09	Not meeting the Prescribed Standard in respect of Ni (3.09 mg/l against 3 mg/l) and BOD (32 mg/l against 30 mg/l). OLMS was not working at the time of DPCC Monitoring.
2	Badli CETP	04.12.2019	pH - 6.4 TSS - 180 BOD - 80 COD - 272 TDS - 1260	Ph - 6.8 TSS - 64 BOD - 56 COD - 80 TDS - 1090	Not meeting the Prescribed Standards in respect of BOD (56 mg/l against 30 mg/l).
3	Mayapuri CETP	06.12.2019	pH -7.5 TSS -396 BOD -240 COD -720 TDS - 1670	pH -7.5 TSS -52 BOD -30 COD -92 TDS - 1150	Meeting the Prescribed Standards.
4	Mangolpu ri CETP	06.12.2019	pH - 7.1 TSS - 404 BOD - 280 COD - 760 TDS - 2340 Chlorides- 1340 Sulphide as S-6.6	pH -7.3 TSS - 68 BOD -48 COD -148 TDS - 1920 Chlorides- 1170 Sulphide as S-2.4	Not meeting the Prescribed Standards in respect of BOD (48 mg/l against 30 mg/l), Chlorides (1170 mg/l against 1000 mg/l) and Sulphide as S (2.4 mg/l against 2 mg/l).
5	Wazirpur CETP	05.12.2019	pH - 2.7 TSS - 276 BOD - 185 COD -568 TDS - 2450 Ni - 7.5	pH -5.8 TSS -56 BOD -30 COD -92 TDS - 2100 Ni - 4.4	Not meeting the Prescribed Standards in respect of Ni (4.4 against 3 mg/l).
6	Nangloi CETP	06.12.2019	pH -7.4 TSS - 648 BOD - 480 COD - 960 TDS - 2100	pH -7.2 TSS -84 BOD -68 COD -212 TDS - 1890	Not meeting the Prescribed Standards in respect of BOD (68 mg/l against 30 mg/l).
7	SMA CETP	05.12.2019	pH -6.7 TSS - 416 BOD -175 COD -520 TDS - 1800 Ni - 6.3	pH -7.2 TSS -60 BOD -42 COD -132 TDS - 1520 Ni- 4.0	Not meeting the Prescribed Standards in respect of BOD (42 mg/l against 30 mg/l) and Ni (4.0 mg/l against 3 mg/l).
8	Okhla CETP	10.12.2019	pH - 7.4 TSS - 620 BOD -370 COD -960 TDS -1940	pH -7.4 TSS -48 BOD -30 COD -96 TDS - 1750	Meeting the Prescribed Standards.

S. No	Name of CETP	Date of Sampling	Influent Quality at Inlet (in mg/l)	Effluent Quality at Outlet (in mg/l)	Brief of Analysis Report (For Treated Effluent)
9	Narela CETP	09.12.2019	pH -7.2 TSS -168 BOD -90 COD - 260 TDS -1900	pH - 7.4 TSS - 42 BOD -28 COD - 84 TDS - 1270	Meeting the Prescribed Standards.
10	Bawana CETP	09.12.2019	pH -6.2 TSS - 680 BOD - 410 COD - 860 TDS - 2480	pH - 6.8 TSS -46 BOD -28 COD -120 TDS - 1740	Meeting the Prescribed Standards.
11	Naraina CETP	06.12.2019	Plant was non-operational due to electrical fault during the site visit on 06.12.2019 however the CETP is in operational condition.		
12	GTK CETP	05.12.2019	pH - 7.6 TSS -740 BOD -280 COD -800 TDS - 1440	pH - 7.5 TSS - 80 BOD - 48 COD - 130 TDS - 1120	Not meeting the Prescribed Standards in respect of BOD (48 mg/l against 30 mg/l).
13	Lawrence Road CETP	05.12.2019	pH - 7.4 TSS -356 BOD -172 COD -480 TDS - 2560 Chlorides- 2100 Oil & Grease - 32.0 Sulphide as S - 7.2	pH - 7.2 TSS -146 BOD -72 COD - 216 TDS -1920 Chlorides- 1740 Oil & Grease - 10.4 Sulphide as S -2.4	Not meeting the Prescribed Standards in respect of BOD (72 mg/l against 30 mg/l), Chlorides (1740 mg/l against 1000 mg/l), Oil & Grease (10.4 mg/l against 10 mg/l) and Sulphide as S (2.4 mg/l against 2 mg/l).

4.10.3 Upgradation of CETPs and use of Treated Effluent from CETPs :

DSIIDC has engaged NEERI vide letter dated 05.11.2019 for providing consultancy w.r.t various issues related to CETPs including the upgradation of CETPs as per following scope of work:

- (a) Formulating an action plan for the survey of the individual industries in various industrial areas for ensuring their connectivity with the waste water conveyance system of CETPs and identifying industrial units violating environmental pollution norms.
- (b) To assess the overall functioning of all 13 CETPs through a physical survey.
- (c) To formulate an action plan for 13 CETPs after the study of the survey report in terms of :
 - (i) Required up-gradation and retrofitting of CETPs to make them compatible with the composition of effluent reaching CETP for capacity utilisation (use of CETP as STP) and to conform the effluent discharge standards and to work out cost associated with this task.
 - (ii) Management of the hazardous sludge being generated by CETPs.
 - (iii) Maximizing utilisation of treated water from CETPs in order to achieve Zero Liquid Discharge and reducing dependency of greenbelts/parks in and around CETPs on ground water.

- (d) Study regarding requirement of CETPs in 11 industrial areas which are presently not having CETP.

As per the recommendation of NEERI, the necessary action for up gradation of CETPs and for carrying out other activities shall be taken.

Utilization of Treated Wastewater of CETPs

- 1-1.25 Million Litres of treated water of CETP Narela is being used for horticulture purposes per day in 23 parks & 05 green belts in the Narela Industrial Estate.
- Approximate 1 Million Litre of treated water of CETP Bawana is also being used for Horticulture purposes per day in Green belt and parks in Bawana Industrial Area.
- Treated water of CETP Mayapuri was in use for horticulture purposes by DDA but now DDA has stopped taking the treated water.
- Efforts are being made by CETP societies of Okhla Industrial Area and Badli Industrial Area for using the treated water of CETP in nearby parks and green belt of DDA for which they have taken up the matter with DDA.

NEERI has been engaged by DSIIDC as Project Management Consultant for upgradation of CETPs and other related issues including re-use of treated water by CETPs in order to achieve Zero Liquid Discharge and reducing dependency of greenbelts/parks in and around CETPs on ground water.

4.10.4 Online Monitoring System (OLMS) for CETPs

Online Monitoring Systems have been installed on all the 13 CETPs for measuring the value of pH, TSS, BOD & COD at the outlet of the CETPs. All these OLMS are connected to servers of DPCC and CPCB. Besides this, display boards have also been installed at the gate of each of the CETPs in order to bring the treated water parameters in public domain. Calibration of Online Monitoring System installed at CETPs is being carried out by DPCC Water Laboratory.

4.10.5 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 Effluent Treatment Plant (ETP) / waste water treatment facilities. However, there is issue of industries functioning from residential/ non-conforming areas and the said issue / matter 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 the matter of MC Mehta vs. UOI in WP (c) No. 4677 of 1985.

4.11. Ground Water Extraction / Contamination and Re-charge:

Following are the brief on the mechanism for granting groundwater extraction permission in Delhi, as per the Ground Water Regulation and Management issued vide notification dated 12.07.2010 under Section 5 of Environment (Protection) Act, 1986.

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. 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.

Delhi Jal Board (DJB) and New Delhi Municipal Council (NDMC) give the permission of ground water withdrawal (as per area of jurisdiction) based on recommendations of Advisory Committee under District Magistrate (Revenue) of that area, hence all the records are available with DJB or NDMC as per area jurisdiction. The notification contains the entire procedure. The issue of contamination of ground water is looked after by DJB/CGWA.

4.2 Air Pollution including Noise Pollution:

4.12.1 Status of Noise Pollution in Delhi:

Delhi witnesses excessive noise on account of large number of vehicles of all sorts including those who come from other areas where CNG is not the fuel, construction activities, diesel generating sets, etc. Use of high sound loudspeakers during festivals and many social gatherings in public place directly increases the noise pollution in the affected areas. GNCTD has notified an area of 100 metres around the hospitals with 100 beds or more, educational institutions with 1000 students or more, all court complexes, all government complexes as Silence Areas/Zones. The Central Pollution Control Board published the information regarding permitted ambient noise levels in different areas. A Continuous Noise Monitoring is undertaken at R.K. Puram, Mandir Marg, Punjabi Bagh, Civil Lines and Anand Vihar. The monthly average of Real Time Ambient Noise Levels of Day & Night Time from January to September-2019 is given below:

Monthly Average of Real Time Ambient Noise Levels (Day Time) in 2019					
Month	Anand Vihar (dB (A))	Civil Lines (dB (A))	Mandir Marg (dB (A))	Punjabi Bagh (dB(A))	R.K.Puram (dB (A))
Jan-19	66.2	61.7	51.8	58.3	71.6
Feb-19	65.6	62.4	60.1	59.9	61.9
Mar-19	65.8	61.4	62.1	58.9	59.2
Apr-19	64.9	61.0	61.2	59.4	61.2
May-19	64.7	61.1	56.8	59.6	59.4
Jun-19	65.0	59.8	62.0	55.0	59.9
Jul-19	65.8	62.7	58.9	59.9	62.4
Aug-19	65.6	61.6	56.7	59.5	62.5
Sep-19	65.2	61.6	55.4	59.3	63.9
Oct-19	65.7	57.1	61.1	55.3	60.3
Nov-19	65.7	61.0	54.3	57.6	60.3
Dec-19	65.4	61.0	53.4	57.1	62.1
Average	65.5	61.0	57.8	58.3	62.1

Monthly Average of Real Time Ambient Noise Levels (NightTime) in 2019					
Month	Anand Vihar (dB (A))	Civil Lines (dB (A))	Mandir Marg (dB (A))	Punjabi Bagh (db(A))	R.K.Puram (dB (A))
Jan-19	64.5	58.0	46.6	52.2	61.4
Feb-19	62.8	58.6	46.9	52.5	54.7
Mar-19	63.5	58.6	50.3	51.7	53.7
Apr-19	62.7	59.3	52.5	52.7	54.4
May-19	62.4	59.2	49.7	52.7	54.4
Jun-19	62.5	59.2	49.1	55.1	54.6
Jul-19	62.5	58.2	49.7	52.9	55.7
Aug-19	62.6	57.9	53.7	51.8	55.2
Sep-19	62.0	58.0	49.8	51.9	62.2
Oct-19	62.6	58.5	49.7	50.4	54.4
Nov-19	63.0	58.9	47.6	51.4	53.8
Dec-19	62.4	58.4	46.9	50.7	57.2
Average	62.8	58.6	49.4	52.2	56.0

Yearly Average of Real Time Ambient Noise Levels (Day time)					
Year	Anand Vihar (dB (A))	Civil Lines (dB (A))	Mandir Marg (dB (A))	Punjabi Bagh (db(A))	R.K.Puram (dB (A))
2015	67.8	62.9	57.1	63.4	60.3
2016	67.6	62.7	58.4	59.0	61.0
2017	67.8	62.4	56.8	59.0	60.6
2018	66.2	61.0	57.6	59.3	61.1
2019	65.5	61.0	57.8	58.3	62.1

Yearly Average of Real Time Ambient Noise Levels (Night Time)					
Year	Anand Vihar (dB (A))	Civil Lines (dB (A))	Mandir Marg (dB (A))	Punjabi Bagh (db(A))	R.K.Puram (dB (A))
2015	64.9	61.9	50.8	58.9	53.7
2016	65.8	61.3	51.5	54.8	56.1
2017	65.0	60.3	48.5	53.3	54.4
2018	63.9	58.7	51.4	52.5	54.9
2019	62.8	58.6	49.4	52.2	56.0

Information in the format provided by CPCB in respect of Noise Pollution is enclosed as **ANNEXURE- VIII (A).**

12.2 Status of Air Quality of Delhi:

Delhi is one of the most polluted cities in the world, specifically with reference to concentration of Particulate ($PM_{2.5}$ and PM_{10}). Different studies attributed to concentration of particulate to different sources from road re-suspension dust, fugitive emission construction sites, vehicular emission and windblown dust. Seasonal trend are controlled by adverse metrological parameters, Trans state movement of pollutants and episodic emissions. Monitoring of Particulate started in Delhi in late 80s in 2001 automated systems were used to monitor mainly PM_{10} , SO_2 , NO_2 , and CO . In October, 2010 DPCC started monitoring of 8 parameters i.e. $PM_{2.5}$, PM_{10} , SO_2 , NO_2 , CO , NH_3 , O_3 and Benzene on Real time basis at 6 locations which is further strengthened in 2017 by 20 more stations. 3 different agencies monitor Ambient Air in Delhi i.e. CPCB, DPCC and IITM and together they operate 40 stations in Delhi. The data generated by these stations is available in public domain in different format viz. concentration based data, AQI etc. Which is used by researchers, administrators planners, Media houses and judiciary also.

Air pollution in Delhi is a serious cause of concern for the Government of NCT of Delhi. World Health Organization defines air pollutants as substances put into the air by activities of mankind into concentration sufficient to cause harmful effects to health, crop-yield and property. Air Pollution mainly constitutes particulate matter and gases. Increasing levels of $PM_{2.5}$ (Particulate Matter of less than 2.5 micron size), PM_{10} (Particulate Matter of less than 10 micron size), NO_2 (Nitrogen dioxide) in ambient air have been in attention of the media, Courts and various other organizations as well as general public. Meteorological factors viz. Wind Speed, Wind Direction, humidity, temperature etc. also plays a crucial role in the air pollution episodes that happens in the winter months in the whole of North India. It is also evident that Delhi's Environment is highly influenced by different meteorological phenomena. In summer, the particulate is influenced by dust storm from Rajasthan and in winter by calm conditions and inversion as well as biomass burning in NCR.

As per the study conducted by Department of Environment, Govt. of Delhi through IIT Kanpur in 2015, the major sources of air pollution in Delhi have been identified as under:-

- Vehicular pollution.
- Road and soil dust and its re-suspension.
- Dust generated due to construction and demolition activities.
- Burning of dry leaves/garbage etc.
- Industrial pollution emissions.
- Trans-state movement of pollutants specially due to burning of crop residue in neighboring states.
- Industrial sources/Thermal Power stations.

The possible main reasons for high level of air pollution were as follows:

- (a) Crop residue burning in neighboring states.
- (b) Non-favorable metrological conditions like calm wind, temperature inversion at lower height.
- (c) Vehicular Pollution.
- (d) Dry conditions helping re-suspension of particulate matter (PM).

I. MONITORING OF AIR POLLUTION:

To monitor the Ambient Air Quality parameters, there are 40 Continuous Ambient Air Quality Monitoring Stations (CAAQMS) in Delhi (DPCC-26, CPCB-6, MoES-8). The Online data of Ambient Air Quality of DPCC 26 CAAQMS are available on DPCC website. It is also noted that the monitoring data of DPCC CAAQMS are also taken for the overall calculations being done by CPCB for its Air Quality Index (AQI) calculations and also for the forecasting of the air pollution for the three days by the SAFAR program of Ministry of Earth Sciences, Govt. of India.

The annual and monthly trend of the different pollutants is shown in the Table.

Table: *City average is calculated from 2014-2017 for 4 stations & for 2018-2019 for 24 stations

Yearly City Average* of Various Pollutants of DPCC CAAQMS from 2014 – 2020 (Till Jan)								
Year	PM 10 (ug/m3)	PM 2.5 (ug/m3)	SO2 (ug/m3)	NO2 (ug/m3)	O3 (ug/m3)	NH3 (ug/m3)	CO (mg/m3)	C6H6 (ug/m3)
2014	324	149	15.94	82.45	40.89	46.87	1.58	4.76
2015	295	133	18	71.96	45.11	43.97	1.51	4.41
2016	303	137	21	71.63	39.78	43.16	1.84	6.28
2017	277	130	23	74.01	43.60	37.99	2.07	5.20
2018	277	128	19	50.00	38.57	40.00	1.52	3.10
2019	230	112	14.76	48.18	34.69	37.80	1.44	4.25
2020 (Jan)	253	166	10.83	49.06	18.90	45.67	1.66	5.07

Table: *City average is calculated for 24 stations

Monthly City Average* of Different Pollutants of DPCC CAAQMS 2019 and 2020 (Till Jan)								
Months	PM 10 (ug/m3)	PM 2.5 (ug/m3)	SO2 (ug/m3)	NO2 (ug/m3)	O3 (ug/m3)	NH3 (ug/m3)	C6H6 (ug/m3)	CO (mg/m3)
Jan	343	215	17.50	64.91	23.31	51.83	7.24	2.02
Feb	227	127	16.81	53.46	28.33	40.25	4.39	1.42
Mar	193	86	19.59	51.55	36.81	33.13	3.62	1.29

Apr	249	82	23.38	54.82	52.67	34.82	4.17	1.38
May	268	92	21.29	55.18	54.65	34.66	4.57	1.36
June	225	62	14.97	40.85	56.05	32.31	2.96	1.22
July	149	46	9.86	31.36	29.34	33.98	2.20	1.17
August	84	33	9.14	30.99	24.05	34.27	2.40	1.18
Sep	99	40	9.81	30.68	29.82	29.47	2.27	1.05
Oct	255	130	12.01	49.75	36.13	33.59	5.32	1.67
Nov	333	215	12.96	56.28	24.07	37.87	5.86	1.75
Dec	331	219	9.75	58.33	21.04	57.38	6.02	1.79
2020 (Jan)	253	166	10.83	49.06	18.90	45.67	1.66	5.07

II. IMPLEMENTATION OF GRADED RESPONSE ACTION PLAN (GRAP) IN DELHI:

GRAP provisions had been followed strictly during the year though special stress is given from October to February every year.

The major steps taken under GRAP is as follows:-

- Increasing bus and metro services by augmenting contract buses and increasing frequency of service.
- Increase frequency of mechanized cleaning of road and sprinkling of water on roads. Identify road stretches with high dust generation.
- Residential Welfare Associations and individual house owners to provide electric heaters during winter to security staff to avoid open burning by them.
- Alert in newspaper/TV/Radio to advise people with respiratory and cardiac patients to avoid polluted areas and restrict outdoor movement
- Stop use of diesel generators sets.
- Shut down Badarpur Power Plant as of October 15, 2018.
- Take steps to maximize generation of power from existing natural gas based plants to reduce operation of coal based power plants in the NCR.
- Intensify patrolling, including night patrolling in industrial areas and other 'hot spots' in the city so that there is complete control on waste burning as well as industrial emissions. EPCA has already brought to your attention that it has found many cases of waste burning and industrial emissions, which is a gross violation of GRAP conditions.
- Intensity efforts for interrupted power supply in NCR towns to avoid requirement of operating DG sets and inconvenience to public.
- Publish in newspapers and disseminate widely the following information for the general public:
 - The need for public to minimize exposure and also advice people to minimize their travel using private vehicles as much as possible.

- Enumerate and list all actions that have to be taken under GRAP, so that people are informed and can act as stakeholders in the efforts to control pollution.
- Publish list of penalties that have been imposed and actions taken against people/industries found polluting. This information will provide deterrence and help improve enforcement.

III. ACTION PLANS/ PROPOSALS OF DELHI GOVERNMENT TO TACKLE THE AIR POLLUTION SITUATION IN DELHI:

- Mechanical road sweeping
- Water sprinkling using treated sewage water.
- Solid waste management both centralized & decentralized.
- Plans for remediation of dump sites.
- C&D waste management,
- silt management,
- plantation,
- Greening & Paving.
- Greening of flyovers and over bridges.
- Greening of open spaces, vertical gardens etc.
- Industrial air pollution control by converting them to PNG.
- Fiscal incentives to the industries, tandoors and hotels & restaurants for conversion into PNG from conventional fuels.
- Various enforcement actions taken by DPCC in respect of dust control and biomass burning etc. by imposing heavy fines.
- Deployment of environmental Marshals in each ward.
- Enforcement actions taken by other agencies.
- Action taken by industries in the non-confirming areas.

IV. MEASURES TAKEN TO CONTROL AIR POLLUTION IN DELHI:

- 1) The HLTF reviews action taken report submitted by all the agencies including the neighboring states of Rajasthan, Haryana, UP and Punjab.
- 2) Monitoring and Action against persons for burning of waste material/garbage in open:-
Government has undertaken special drive of inspections to prevent air pollution due to burning of leaves/garbage in open areas.
 - (a) To receive the public complaints in order to stop the burning of Garbage/Waste material/ Leaves, Delhi Pollution Control Committee (DPCC) has opened "Whatsapp account with mobile number 9717593574" and "9717593501".
 - i. Sub Divisional Magistrates (SDMs) along with Tehsildars (Executive Magistrate), Department of Revenue, GNCTD, have been authorized to take action against violations. Penalty is being imposed in accordance with the directions of Hon'ble National Green Tribunal.
 - ii. For prohibition of burning of dry leaves / garbage / plastic etc, Municipal Corporation of Delhi (MCDs)/ Delhi Development Authority (DDA) has been asked that if any violation

found, concerned S.O. (Horticulture) and Sanitation Inspection will be held responsible personally and action will be taken against them.

iii. Other Civic Agencies also have imposed fines in respect of violations found at sites.

3) Monitoring and Action against violators of dust control measures:-

Govt. has launched special drive to improve air quality by way of enforcing Dust Control Measures by the construction project agencies/ individuals. Area SDMs, Tehsildars, Assistant Engineers of Public Works Development (PWD) and Delhi Pollution Control Committee (DPCC) are regularly inspecting projects for checking the compliance of dust control and levy compensation for violations of dust control measures.

- i. SDMs along with Tehsildars (Executive Magistrate), Department of Revenue, Govt. of NCT of Delhi and Assistant Engineer of Public Works department (PWD) have been authorized to take action against violations. Penalty is being imposed in accordance with the directions of Hon'ble National Green Tribunal.
- ii. All local bodies and DDA have also been asked to apprise public in general and owners and builders in particular who have got their building plans sanctioned for following dust control measures.
- iii. DPCC has imposed fine on construction projects who have obtained Environmental Clearance (built up area more than 20,000/- sq. Mtrs)

Review meetings have been convened with stakeholder departments/Agencies for prohibition of burning of leaves, garbage, plastic, rubber etc. in open and for taking dust control measures at construction sites.

4) Promotion of Battery Operated Vehicles:-

With the view to promote non-polluting e-vehicles, Govt. has announced subsidy schemes for adopting various kinds of e-vehicles such as Two-Wheeler, Four-Wheelers and also e-rickshaws. Owners of newly purchased battery operated 4 wheelers and 2 wheelers are given subsidy by GNCTD, in addition to subsidy by Govt. of India @ Rs 2000-5500 for two wheelers and Rs. 30000/- to 1,50,000/- for four wheelers. One time fixed subsidy of Rs. 30,000/- is given to Battery Operated e-rickshaw owner, authorized by Transport Department and registered in the NCT of Delhi.

5) Prohibition on bursting of firecrackers:

Direction U/S 31(A) of Air (Prevention & Control of Pollution) Act, 1981 read along with Rule 20A of Air (Prevention & Control of Pollution) (Union Territories) rules, 1983 to ban bursting of firecrackers/ fireworks at all times except on religious occasions has been issued on 08.12.2016.

Hon'ble Supreme Court issued directions via order dated 23.10.2018 & subsequent orders in Writ Petition (Civil) No. 728 of 2015 regarding bursting of Firecrackers. DPCC has printed leaflets containing Supreme Court directions in brief for awareness of type of firecrackers allowed and harmful effects of bursting of Firecrackers.

6) Imposition of Charge on lights and heavy duty commercial vehicles entering Delhi:

In compliance with the order dated 09.10.2015 and 16.12.2015 of Hon'ble Supreme Court, Environment Compensation Charge (ECC) is levied on Delhi bound light and heavy duty commercial goods vehicles. Notifications have been issued as per Hon'ble Supreme Court directions.

Information in the format provided by CPCB in respect of Air Pollution is enclosed as **ANNEXURE- VIII (B).**

4.13 Illegal Sand Mining :

As per the information provided from DM (NE) (Nodal officer), the illegal sand mining is not reported in Delhi stretch of river Yamuna. Further, during a meeting held on 30.09.2019 under Chairmanship of DM, North East District Delhi, which was represented by CPCB, DPCC and concerned SDMs in the Hon'ble NGT matter in OA No. 585/2019 regarding illegal sand mining. During the meeting it was discussed that alleged area of 17 km downstream of Tajewala Bund/ Blockade is being built in the main river downstream of confluence of the river Somb and river Yamuna which will obstruct the flow of river Yamuna. In this stretch illegal sand mining is undertaken for which CPCB may ask the Haryana State to take up the matter in accordance with the law and submit ATR to Hon'ble NGT accordingly.

4.14 Rejuvenation of Water Bodies:

4.14.1 Rejuvenation of Water Bodies by DJB:

Action Plan of DJB for Rejuvenation of 155 Number of Water Bodies

(1) Delhi Jal Board, in consultation with Govt. of NCT of Delhi has prepared an action plan for rejuvenation of 155 numbers of Water Bodies. The process to implement the proposals has started. The scheme amounting to Rs 376.79 Cr for revival of 155 water bodies is already approved by Delhi Jal Board in its meeting held on 24.12.2018.

(2) M/S CSIR-NEERI has been entrusted the work of development of 83 water bodies. IIT DELHI (Indian Institute of Technology- Delhi) was awarded the work of rejuvenation of 72 water bodies in December 2018 resulting in slight delay in progress of works. Out of 83 water bodies entrusted to M/S CSIR-NEERI, DPR of 59 water bodies is received, which are divided into ten phases, depending on nature of water body and receipt of DPRs in phased manner.

A. The work of rejuvenation of 4 water bodies was awarded to M/s CSIR. An agreement was signed on 30.01.2017.

B. In order to further expedite the works of remaining water bodies and to compensate the delay caused due to IIT(Delhi) and imposition of Code of Conduct , it is now proposed to carry out the work of remaining water bodies (155 – 87), in the following ways, to have multiple methods and distribution to different agencies, for speedy execution of work :

- a) Execution of work of rejuvenation of water bodies through Design-Build-Operate basis.
- b) Execution of work of rejuvenation of water bodies after award of Consultancy to Govt Organization. A proposal of consultancy for rejuvenation of water bodies is received

from Indian Agricultural Research Institute, New Delhi. The case is being processed for award of work.

- c) Execution of work of rejuvenation of water bodies after award of Consultancy to specialized consulting firms.

The average time period proposed for execution of work of each water body is about 6 months after award of work, which includes execution, commissioning and trial run period.

- (3) Work of creation of new water body at Timarpur oxidation pond at DJB land is processed for implementation on ground. The award of work is approved in the 143rd meeting of Delhi Jal Board held on 19.08.2019. The period of completion is 12 months for execution, 3 months for commissioning and 3 months of trial run period. The work is likely to be completed in September, 2020. It is proposed to utilize 25 MLD (5.5 MGD) of treated effluent to recharge ground water through lake.
- (4) The work of creation of water body at the vacant land of DJB at Dwarka Water Treatment plant was awarded on 23.04.2018 with completion period of 6 months. The work is delayed due to delay in finalization of boundaries of proposed WTP at Dwarka. Now it is proposed to construct a part of lake in the remaining portion of Dwarka WTP and another part in the vacant land of Najafgarh WWTP, adjacent to Dwarka WTP. The project is likely to be commissioned by 31.07.2020. It is proposed to utilize 68 MLD (15 MGD) of treated effluent to recharge ground water through lake.
- (5) Delhi Jal Board has proposed to create new water bodies at the vacant land at Rohini and Nilothi WWTPs. The schemes amounting to Rs. 5384.66 lac and Rs. 2349.59 lac have been approved by Delhi Jal Board in its meeting held on 24.12.2018.

Tenders for the work of creation of lake at Rohini WWTP have been received on 16.07.2019. The award of work is approved in the 144th meeting of Delhi Jal Board held on 27.08.2019. The period of completion is 12 months for execution, 3 months for commissioning and 3 months of trial run period. The work is likely to be completed in September, 2020. It is proposed to utilize 22.7 MLD (5 MGD) of treated effluent to recharge ground water through lake. For the work of lake at Nilothi period of completion is 12 months for execution, 3 months for commissioning and 3 months of trial run period. It is proposed to utilize 68 MLD (15 MGD) of treated effluent to recharge ground water through lake.

- (6) Proposal for the work of creation of water body at the vacant land of WWTP at Pappankalan has been approved by DJB Board. It is proposed to initially execute the work of creation of lake. The period of completion is proposed as 28.02.2020. It is proposed to utilize 22.7 MLD (5 MGD) of treated effluent to recharge ground water through lake.
- (7) A proposal for creation of lake at the abandoned land of Ash Ponds owned by M/S Indraprastha Gas Power Corporation Ltd has been approved by Delhi Jal Board in its meeting held on 27.05.2019. The cost of project is Rs 36.92 Crore. It is proposed to utilize 68 MLD (15 MGD) of treated effluent to recharge ground water through lake.

A scheme for revival of Satpula lake opposite District Court, Saket, amounting to Rs. 22,90,68,486/- has been approved by DJB in the meeting held on 19.08.2019. Period of completion is 9 months.

List of sites for rejuvenation of Water Bodies by Delhi Jal Board is at **ANNEXURE- IX (A)**

4.14.2 Rejuvenation of Water Bodies by I & FC Department:

Irrigation and Flood Control Department of Govt. of NCT of Delhi has been allotted 96 Water Bodies for rejuvenation / revival. For 59 Water Bodies, consultants have been appointed, out of which 33 DPRs have been received. For remaining 37 Water Bodies matter is under process for appointment of consultant.

List of 96 Water Bodies allotted to I&FC Department for rejuvenation / revival is at **ANNEXURE- IX (B)**.

Format for Municipal Solid Waste Management (MSW)

S. No	Issue	EDMC	North DMC	SDMC	NEW DMC	DCB
1 a	What is the quantity of MSW generated in the state.	2600-2800 TPD	4500 MT in North DMC	3600 TPD	Approx. 280 MTD	64 MT
2 a	What is the quantity of MSW processed in the state.	1200-1350 TPD	2300 MT in North DMC	1850 TPD	Approx. 280 MTD	47 MT
3 a	What is the quantity of MSW sent to the landfills.	1300-2000 TPD	2200 MT in North DMC	1750 TPD	Nil	17 MT
4 a	Is door-to-door collection /segregation & transportation of segregated waste being done in the entire State.	100% door to door collection of segregated MSW is implemented in model wards in EDMC and all the wards will be covered by May 2020.	Door to Door collection & Transportation - 100%, Segregation- 50%	Segregation of Waste: Model Wards: 16 Model Wards identified in SDMC (3 notified, 13 additional wards). (i) In 3 Model Wards (59-S, Anderw Ganj, 16-S Janakpuri, 65-S R.K.Puram) Segregation of Waste at Source is extensively processed and achieved 80-100%. (ii) In remaining 13 wards presently about 50% segregation of waste at source is achieved as per report of TERI. 100% target is to be achieved by March 2020. (iii) Door to Door collection of waste has been started in 22 Wards by June 2020. Remaining 44 wards will be covered by December 2020. Segregation of waste by households into Biodegradable, non-biodegradable, domestic hazardous. In all four zones of SDMC segregation of waste by Households in approved colonies is to the tune of 60 to 80% and in slum areas/unplanned areas it is to the tune of 30 to 40 % This is being increased by creating awareness through IEC activities. Transportation in covered vehicles to processing or disposal facilities Transportation of MSW is done through MTS, Auto Tippers and Hook Loaders in covered manner to processing or disposal facilities in all the Wards including Model Wards.	Yes	Door-to-Door Collection (i) In Civil areas of all eight wards, door to door collection of Solid Waste from all households and slum areas is being done 100%. (ii) The areas occupied by Armed forces in all eight wards, door to door collection are being done 65%. Segregation of Waste (i) Segregation of waste in Civil areas of all eight wards has been achieved upto 90%. (ii) The areas occupied by Army in all eight wards; the segregation is achieved upto 60%.
b	If not, please provide percentage coverage of the State as per "4a" above.				100%	As stated in 4a above.
c	If not, please provide timeframe for coverage of entire state as per "4a" above.		Sep. 2021		Not Applicable	The targets for door to door collection/segregation will be achieved by March, 2020.
d	If not, has destination of disposal for mixed waste been identified for areas in which segregation of waste is not being done.		Yes, 1. narela-Bawana - Integrated waste processing facility 2. Bhalaswa Landfill	Waste to Energy plant & SLF Okhla (dumping site).	Not Applicable	Yes

5	a	Is all waste generated in the state processed in the waste processing facilities	No	50% is being processed	About 50% of waste generated is processed in the waste processing facilities under SDMC.	Yes	No. 73% is processed in Waste to Energy and Waste to Compost plant at Okhla and the remaining 27% is diverted to landfill
	b	If not, please provide percentage coverage of the State as per "5a" above	Approximately 50% of MSW generated is being processed in EDMC.	50%	As above 5a	Not Applicable	73%
	c	If not, please provide timeframe for above for coverage of entire state for "5a" above	the time frame can only be fixed after getting the land and fund from the Govt..	March 2021	It is expected that all waste generated will be processed by March, 2021.	Not Applicable	By March, 2020
6	a	Have all dumpsites in the state been cleared	Biomining and bioremediation of SLF site Ghazipur is under process.	No	Dump site at SLF Okhla is being cleared through Bio-mining /remediation. It contains 55 Lacs MT legacy waste.	Yes No dumsite in NDMC area	Yes
	b	If not, please indicate the number of dumpsites in which work has commenced and percentage of waste cleared	Work commenced at SLF Ghazipur.	one sitde at Bhalaswa under North DMC, work has been started and 1.10% completed	Total 6 Trommels are to be installed out of which one trommel is functioning with a capacity of 300 TPD since, 07.10.2019. So far, 24000 Ton waste has been remediated. 5 more trommels are under installation and likely to be commissioned by 28.02.2020	Not Applicable	Not Applicable
	c	If not, please provide timeframe for clearing of all dumpsites.	There is space constraints at SLF Ghazipur for the dumping of inert. As soon as the alternate is provided, the time frame will be fixed.	Nov. 2021	As above 6.a, Time frame- September, 2022. Site for dumping of inert material generated from bio-mining at Abandoned Bhati Mines is yet to be approved by MoEF&CC. Application has been submitted to RMB for recommendation. A letter in this regard has been sent to PCCF dated 08.11.2019 further action is awaited. In addition a letter has also been sent to MD NTPC for grant of permission to dump inert waste at their proposed ECO park at Now closed Badarpur Thermal Power Station (BTPS) site.	Not Applicable	Not Applicable
7	a	Have rates for procurement of services/equipment (to do away with the tendering process) required for solid waste management been standardized.	Information not provided	Equipments for SWM are being procured from GeM Portal. Services part will be done either departmentally or through bidding	The standardization of rates for procurement of services/equipment is not proposed at present as the rates for services vary with the site conditions and provisions in the procurement of each case /work/item.	No	The variations in the rates of capital goods/services are addressed through annual tendering system which however follow well standardised procedures.
	b	If not, please provide timeframe for standardizing of the same.	Not Pertaining			It will be carried out by the State Governmet.	Not Applicable

8	a	What action has been initiated against the defaulting officers/ organization (financial penalty, Entry in ACR,etc) responsible for Solid Waste Management.	Not Pertaining	Not Applicable	Yes.	In Swachh Survekshan 2019 NDMC got 1st Rank in 1-3 Lakh population of City	No occurrence of such lapses have come to notice. However, this has been noted for compliance.
	b	If yes, please provide the details.	Not Applicable	Not Applicable	In DEMS department as per record 38 nos. suspended delinquent official(s) i.e. Chief Sanitary Inspector / Sanitary Inspector / Assistant Sanitary Inspector and Safai Karmachari's were suspended respectively from 1.1.2019 to 31.1.2020 on account not performing their duties.	Not Applicable	Not Applicable
	c	If, no ,please provide the details of action proposed to be taken against the defaulting officers/organizations (financial penalty, Entry in ACR,EC, Prosecution etc).	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Actions like stopping of increment, entries in ACR have been proposed.
9	a	Has environmental management cell been created in the state for monitoring key environmental issues.	Information not provided	Yes	Department of Environment Management Services (DEMS) has already been functioning, which is responsible for Key Environment issues related to Solid Waste Management, Plastic Waste Management etc.	Swachhta Cell has been created in NDMC	It is learnt that such a cell has been created at the level of GNCTD

Time Frame for Implementation of Various Activities as per Rule 22 of SWM Rules, 2016

S. No.	Activity	Time Limit	Action Taken by MCDs			
			Delhi Cantonment Board (DCB)	NDMC	SDMC	North MCD
1	Identification of suitable sites for setting up solid waste processing facilities.	1 year	Delhi Cantonment Board (DCB) does not have its own sanitary landfill due to the existing restrictions under Indian Air Craft rules, 1937 and Solid Waste Management Rules, 2016, since Delhi Cantonment Jarea falls within 10-20 km distance of domestic Airport. Consequently, Delhi Cantonment Board is transporting the waste to the centralised composting and waste to energy plants, setup under SDMC at Okhla.	Not Applicable	A Work order issued on 30.03.2018. for setting up of new Waste to Energy Plant of capacity 2000 TPD at Tehkhand and is likely to be commissioned in March 2021.	
2	Identification of suitable sites for setting up common regional sanitary landfill facilities for suitable clusters of local authorities under 0.5 million population and for setting up common regional sanitary landfill facilities or stand-alone sanitary landfill facilities by all local authorities having a population of 0.5 million or more.	1 year		Not Applicable	Not Applicable	It is a continuous process depending upon the generation of MSW and requirement. (Specific timelines not provided).
3	Procurement of suitable sites for setting up solid waste processing facility and sanitary landfill facilities.	2 years		Not Applicable	Site has been identified in Nov 2017 .EC granted on 29.10.2018. Permission for cutting 552 tress obtained from Environment & Forest Department, GNCT Delhi. It is likely to be commissioned in March 2021.	13 nos. of identified sites are at different stages of implementation Out of which two sites are under public hindrance. Not Applicable
4	Enforcing waste generators to practice segregation of bio degradable, recyclable, combustible, sanitary waste domestic hazardous and inert solid wastes at source.	2 years	(i) In Civil area, segregation is up to a level of 90% in Dry-Wet form only. (100% by March 2020). (ii) In Army area, segregation is up to a level of 60%. (100% by October 2020).	In NDMC area, segregation of waste into biodegradable, nonbiodegradable and hazardous waste at source are being ensured upto the level of 960/o by the households as per the independent survey done by in September, 2019	Segregation of Waste: Model Wards: 16 Model Wards identified in SDMC (3 notified, 13 additional wards). (i) In 3 Model Wards (59-S, Anderw Ganj, 16-S Janakpuri, 65-S R.K.Puram) Segregation of Waste at Source is extensively processed and achieved 80-100% in Dry-Wet form. (ii) In remaining 13 wards presently about 40-50% segregation of waste at source in Dry-Wet form is achieved and 100% target be achieved by 31st March 2020.	5% till February 2020. 100% by September 2021
5	Ensure door to door collection of segregated waste and its transportation in covered vehicles to processing or disposal facilities	2 Years	(i) In Civil area, door to door collection is 100%. (ii) In Army area, door to door collection is 60%. (100% by October 2020). (iii) All waste is carried in covered vehicles during all stages of transportation.	Door to door collection in NDIVC area covers all households . There are 36 covered auto tipper trucks which have been deployed for carrying out door to door collection of Segregated waste.	Specific Information is not provided.	80%
6	Ensure separate storage, collection and its transportation of Construction & Demolition wastes	2 Years	(i) Centralised C & D Waste Collection & Storage centre- Village Jharera, (ii) Transportation of C & D waste- Recycling plant operated by IL & FS at Shastri Park for recycling, in a separate covered vehicle.	Yes, work awarded for separate storage, collection and transportation to concessionaire on 03.01.2017 within the time limit.	Storage, Collection and transportation center for C& D wastes will be operational by March 2020. (i) Bakkarwala functioning by the end of March 2020 (for C&D waste of West and Najafgarh Zones). (ii) Maindangarhi for which land was recently allotted by DDA (for C&D waste of South and Central Zones).	66%

7	Setting up solid waste processing facilities by all local bodies having 100000 or more population.	2 Years	This facility cannot be created within Delhi Cantt due to existing restrictions under Indian Air Craft rules, 1937 and Solid Waste Management Rules, 2016, since Delhi Cantonment area falls within 10-20 Km vicinity of domestic Airport.	Yes, (i) One WtE Okhla (being operated by TOWMCL) is operational. (ii) There are 122 compost pits at in large gardens of NDMC for in situ processing of Horticulture Waste. Besides, Two more decentralised manure/compost are proposed and will be operational by March, 2020.	Yes, (i) Waste to Energy Plant at Okhla (in operation since 2012). Capacity of processing: Approx. 1950 MT/D + 10%. Also one compost plant is operational at Okhla having Installed Capacity of 200 MT/D. (ii) Decentralized Compost Pits (In Operation): SDMC has been carrying out processing of wet segregated waste at different locations in 12 compost pits of different sizes. In addition composting in 62 bins of different capacity is being also carried out. 8 MT (approximate) Bio degradable is processed daily. Proposed Decentralized Processing Of Solid Waste: a) Bio Methanation Plants: Four plants of processing of capacity 5 TPD of Solid Waste each per day are/ being developed/constructed situated at Sarita Vihar, Punjabi Bagh, Vasant Kunj and Sector-14 Dwarka, which will be operational by 31st March, 2020. b) Biogas Plants (200 TPD Capacity, each of Cattle Dung): SDMC is in the process of setting up of 2 nos of Biogas Plants (200 TPD capacity each of cattle dung) at Nangli Dairy Colony, Najafgarh and Goyla Dairy Colony, Najafgarh. These plants are likely to be operational in the year 31st march 2021.	50%	02 years after handing over of land.
8	Setting up solid waste processing facilities by local bodies and census towns below 100000 population	3 Years	Not Applicable	Not Applicable	Total 6 Trommels are to be installed out of which one trommel is functioning with a capacity of 300 TPD since, 07.10.2019. So far, 24000 Ton waste has been remediated. 5 more trommels are under installation and likely to be commissioned by 31.03.2020.	Not Applicable	Not Applicable
9	Setting up common or stand alone sanitary landfills by or for all local bodies having 0.5 million or more population for the disposal of only such residual wastes from the processing facilities as well as untreatable inert wastes as permitted under the Rules.	3 Years	Not Applicable	Not Applicable	Site has been identified in Nov 2017. EC granted on 29.10.2018. Permission for cutting 552 trees obtained from Environment & Forest Department, GNCT Delhi. It is likely to be commissioned in March 2021.	50%	02 years after handing over of land.
10	Setting up common or regional sanitary landfills by all local bodies and census towns under 0.5 million population for the disposal of permitted waste under the rules.	3 Years	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
11	Bio remediation or capping of old and abandoned dump sites.	5 Years	Not Applicable	Not applicable	Total 6 Trommels are to be installed out of which one trommel is functioning with a capacity of 300 TPD since, 07.10.2019. So far, 24000 Ton waste has been remediated. 100% Bio remediation or capping of old and abandoned dump sites is likely to be achieved by September, 2022. Site for dumping of inert material generated from bio-mining at Abandoned Bhati Mines is yet to be approved by MoEF&CC. Application has been submitted to RMB for recommendation. In addition a letter has also been sent to MD NTPC for grant of permission to dump inert waste at their proposed ECO park at now closed Badarpur Thermal Power Station (BTPS) site.	5%	At present 03 nos. Trommels are operating at Ghazipur Dumpsite and has processed 42000 MT of waste. EDMC is in process of installing 08 nos. more such trommels at Ghazipur Dumpsite.

Questionnaire for monitoring of compliance to Bio-Medical Waste Management Rules, 2016 (Status as on 06/02/2020)

Ques 1. Why inventory on numbers of Healthcare Facilities is still incomplete in State/UT, as required under BMW Rules, 2016?

Reply: Following steps were taken by DPCC for identifying the health care facilities (HCFs) operating in Delhi without authorization from DPCC and to subsequently cover them under the ambit of Bio-medical Waste Management Rules, 2016.

- 1.0 DPCC has conducted survey of health care facilities operating in Delhi through both Common Bio-medical Waste Treatment Facilities operating in Delhi for the purpose of identifying the health care facilities operating in Delhi.
- 2.0 In addition to the above the following additional steps were taken by DPCC:
 - 2.1 The list of registered HCFs with DHS was scrutinized and the data was tallied with the data of HCFs registered in DPCC.
 - 2.2 Public Notices have been issued in Newspapers for all HCFs to apply for authorization under the Bio-Medical Waste Management, Rules, 2016.
 - 2.3 DPCC has organized 22 Camps since May, 2019 for enabling the HCFs to apply on-line for Authorization en-mass.
 - 2.4 As on 31.01.20, more than 10,500 HCFs have applied for authorization in DPCC. This is much more than 4185 HCFs which had applied till March, 2019.
 - 2.5 In order to ensure inclusion of all the small clinics, letters have been issued to various associations of HCF i.e. DMA, IMA, Delhi Dental Association etc and to both CBWTFs to certify that all the health care facilities, if any, operated/ run by their members have applied for authorization in DPCC.
 - 2.6 Letters have also been issued to Directorate of Health Services, GNCTD; Husbandry Department, GNCTD, MCD and CDMOs to certify that all the health care facilities under their areas of jurisdiction have applied for authorization under BMW Rules, 2016 in DPCC

Through the above efforts, all the health care facilities through known sources have been covered under the BMW Rules, 2016. At present, more than 99% applications received in DPCC for authorization are from small clinics/ diagnostic labs/consultants. Efforts are still going on to include small clinics in the ambit of DPCC.

Ques 2. What is the reason that inventory is still under process?

Reply: Same as Ques 1.

Ques 3. As observed that non-bedded HCFs have not applied for authorization, why such HCFs are allowed to operate without authorization under BMW Rules, 2016?

Reply: All known non-bedded HCFs in Delhi have applied for authorization. As soon as any violator is noticed, either through complaint or surprise survey, action is initiated against it for operating without taking authorization, including levying of EDC and closure.

Ques 4. How many applications are still under process with State Boards for grant of authorization?

Reply: Approx. 2000 applications are still pending for processing. Since May 2019 DPCC has received more than 6300 applications under BMWM Rules, 2016 out of which DPCC has processed about 4400 applications for authorization under BMWM Rules. Out of these more than 98% are non-bedded facilities.

Ques 5. In case of no Common Biomedical Waste Treatment Facility in Arunachal Pradesh, Andaman & Nicobar, Goa, Lakshadweep, Mizoram, and Nagaland & Sikkim State/UT, how generated biomedical waste is being treated and disposed?

Reply: N.A. to Delhi

Ques 6. Why still there is no proposal submitted by Arunachal Pradesh, Andaman & Nicobar, Goa, Lakshadweep, Mizoram, and Nagaland & Sikkim State/UT for setting up CBWTF?

Reply: N.A. to Delhi

Ques 7. Why Barcode system is not implemented in Andaman Nicobar, Arunachal Pradesh, Assam, J & K, Lakshadweep, Mizoram, Orissa, Puducherry, Sikkim, Uttar Pradesh, West Bengal, Chandigarh, Delhi, Jharkhand, Madhya Pradesh, Maharashtra, Rajasthan and Tamil Nadu, so far even when the deadline is over as per BMWM Rules, 2016?

Reply: Bar code system was implemented in Delhi and meetings were taken by DPCC Member Secretary in the year 2017 and 2018 with the stakeholders for ensuring smooth implementation. However, during the Advisory Committee meeting on 26/03/19, Delhi Medical Association raised the question of transparency of the system as it is mainly controlled through software which is developed/ acquired by CBWTFs as per the guidelines on the barcoding published by CPCB. On the advice of Advisory Committee DPCC decided to develop a centralized software and as the development of the software shall take time, it requested CPCB for extension of one year for the implementation of bar coding in Delhi. However, CPCB has expressed its inability to extend the time vide its letter dated 13/09/19 and has advised DPCC to refer the matter to MOEF&CC for the same, if desired. Considering the response of CPCB, DPCC issued letters to both the CBWTFs operating in Delhi and DGHS, CGHS, Ministry of Home Affairs, ESI Corporation, Ministry of Ayush, DJB, all Municipal Corporations, Animal Husbandry department, IMA, DMA and IDA on 18/10/19 to ensure the implementation of the system in all the health care facilities operating under their jurisdiction/ areas. On 04/12/19, DPCC has issued directions/ letters to all the HCFs having more than 50 beds to implement the scheme by 30th December, 2019. Information is being received and is being compiled.

Ques 8. Whether State / UT has constituted State Advisory Committee so as to review the implementation status?

Reply: Yes pls.

Ques 9. What steps have been taken by Advisory Committee so as ensure implementation of BMWM Rules, 2016?

Reply: Advisory Committee meets once in six months to deliberate on various aspects of BMWM Rules, 2016 and takes decisions for effective implementation. The decisions are to be followed by all stakeholders. 5 meetings have been taken by the Committee since 2016. Details pertain to Health Department, GNCTD.

Ques 10. How many HCFs other than hospitals, nursing homes etc. such as veterinary hospitals, animal houses, AYUSH hospitals have been monitored?

Reply: As of now, 52 veterinary hospitals/ Animal houses/ AYUSH hospitals have applied for authorization in DPCC. All these HCFs are disposing of their biomedical waste through CBWTF operating in Delhi.

Ques 11. What is the frequency for conducting training or capacity building programmes for State Board officials and for staff of HCFs?

Reply: Officials of DPCC are regularly giving presentations/ trainings in the programs/ camps organized by various organizations including CDMOs at district level.

Ques 12. What is the status of installation of Continuous Online Emission Monitoring System with CBWTF and why it has not been implemented by all CBWTFs? What follow-up action has been taken by State Boards?

Reply: COEMS has been installed by both the CBWTFs operating in Delhi.

Ques 13. How OCEMS data received by State Boards is being validated?

Reply: It is not being validated as of now. Pertains to Air Lab.

Ques 14. What is the status of compliance to BMW Rules, 2016 by CBWTFs? What action has been taken against defaulting facilities?

Reply: Both CBWTFs are inspected jointly with CPCB and an expert on the subject. Both CBWTFs also submit quarterly monitoring reports from laboratories approved under EPA. However, during the last monitoring of the CBWTF by DPCC lab, through external lab, some parameters were found to be exceeding the prescribed limits. SCN was issued for levying of EDC in both cases. Replies have been received. Further action is under way.

Ques 15. What is the frequency of monitoring of Healthcare Facilities for verification of compliance to BMW Rules?

Reply: There are 11 District Level Monitoring Committees (DLMC) formed under the chairmanship of concerned District Magistrates and in which concerned officer of DPCC is nominated as member from DPCC. These DLMCs conduct regular inspections

Inspections are also undertaken by DPCC as per the decisions taken in BMW Committees formed under the Chairmanship of MS (for HCFs having bed strength from 51 to 199) and of Chairman (for HCFs having bed strength 200 and more) for deciding the applications of consent and authorization from HCFs.

Apart from the above inspections, following is the envisaged frequency of inspections:

- (i) HCFs having more than 200 beds = once in 6 months**
- (ii) HCFs having 101 to 200 beds = once in a year**
- (iii) HCFs having 51 to 100 beds = once in two years**
- (iv) HCFs having 1 to 50 beds = Randomly**
- (v) Non-bedded HCFs = Randomly.**

However, the same is not possible to adhered to due to acute shortage of staff.

ANNEXURE-III

Off-take of C&D Recycled Material by the Government Department in Delhi

S.No.	Name of Government Departments	Annual Offtake Target (FY 2019-20) (MT)	Cumulative off-take from the existing three operational C&D Waste Processing Facilities in Delhi	Offtake Percentage (%)
1	CPWD	15000	3758	25.05
2	NBCC	30000	1580	5.27
3	DMRC	1000	12	1.20
4	Railway Board	1000	0	0.00
5	NHAI	10,00,000	1233	0.12
6	DDA	50000	38630	77.26
7	PWD	100000	23502	23.50
8	DSIIDC	100000	46250	46.25
9	Irrigation & Flood Control	200000	90414	45.21
10	New Delhi Municipal Council	10000	3202	32.02
11	East Delhi Municipal Corporation	25000	31277	125.11
12	South Delhi Municipal Corporation	50000	35078	70.16
13	North Delhi Municipal Corporation	25000	67353	269.41
	Total	16,07,000	342289	



Format for compliance of Hazardous & Other Waste Management and Transboundary Movement Rules 2016

1. All the Chief Secretary of the all States/UTs have to provide compliance status report on implementation of recommendations made by Monitoring Committee in its interim report as well as final report to monitor of provisions of Hazardous & Other Waste (Management and Trans boundary Movement) Rules, 2016 in compliance with Hon'ble Tribunals orders dated 12.04.2019 and 26.08.2019 in O.A no. 804/2017 in the matter of Rajiv Narayan & Anr. Vs. Union of India & Ors. (Copies of Hon'ble NGT orders enclosed) as per the following format.

S. No	Directions of Hon'ble Tribunal in O.A no. 804/2017	Action Plan along with time line for implementation of orders of Hon'ble Tribunal	Current Status of implementation	Gaps identified for implementing the directions of Hon'ble Tribunal	Details of state level committee constituted for the purpose of compliance of HOWM, Rules. 2016.
1.	Vide orders dated 12.04.2019 Hon'ble NGT directed that <i>"Having regard to sensitiveness of the issue and Impact of noncompliance on environment and public health, the above recommendations need to be fully implemented and monitored by the Chief Secretary at State Level"</i>	*The point wise action plan for NGT order dated 12.04.2019 for Hon'ble NGT order is attached herewith.	- There is no spent solvent recovery unit in NCT of Delhi. - Matter with regard to contaminated sites has been discussed with concern CPCB officials and inspections of such 26 sites are being conducted as per the guidance manual of CPCB and shall be completed within next week. The intended action plan is separately being sent to Additional Director & Division Head Waste Management –I - Letter has been sent to Labour Department, DSIIDC, and Industry Department on 04.10.2019 to comply with the Hon'ble NGT Directions. - A list consisting of type of Hazardous waste generating units, name and category of hazardous waste being generated along with its quantum of generation is being emailed to CPCB. - About 1700 units generating Hazardous Waste were issued Show cause notices to file Annual Return by 30th June, 2019. - Due to issuance of Show Cause Notices, around 1150 units have filed Annual Return.	- TSDF site is yet to be developed by DSIIDC as per HOWM, Rules 2016. - DPCC is also under the process of upgradation of its laboratory including Hazardous Waste Analysis and its Characterization. - The work for preparation of sector wise inventory is also being outsourced to the reputed institute so that scientific examination or scrutiny for identification or quantification of Hazardous Waste generated and to know sectorial process based	Not applicable as per HOWM Rules, 2016.

		• Annual inventory of Hazardous and Other Waste (Management & Transboundary Rules), 2016 prepared as per CPCB guidelines has been sent on 27.09.2019. • The quarterly report on action taken from 15.07.2019 to 14.10.2019 is being compiled and sent through online portal, developed by CPCB. • DPCC has sent list of 30 units to CPCB which were found to be defaulting and as per the approval of CPCB an amount of Rs. 1 Lakh for each violation as penalty to be imposed against these cases. Accordingly, Show Cause Notices for Environmental Damages Compensation were issued to these 30 units. • Inspection Report as per new CPCB format has been adopted for inspection of Hazardous Waste Generating Units. Presently, all inspections of Hazardous waste generating units are being conducted in the new CPCB inspection format. • In compliance of directions vide Hon'ble NGT orders dated 12.04.2019, following actions have been taken for the updation of DPCC website by the IT Cell of DPCC: a) Separate section of "Hazardous Waste" has been created under Waste Management in the website of DPCC and uploaded copy of authorization issued by DPCC along with inspection report. b) New link of "Enforcement Actions" has been created on the page of "Hazardous Waste" web page. In this link, a table has been placed for showing details of industries and action taken is needed. c) NIC has already been requested to kindly make provision in the OCMMS software for online submission of HW Annual Returns (Form IV). d) Action taken by DPCC while enforcing HOWM Rules, 2016 is also being uploaded in aforesaid link on DPCC website. • Consent to operate or its renewal is only decided after inspection of the unit complying under HOWM, Rules 2016 since, HOWM rules has come into force on 04.04.2016.	reasonable Hazardous Waste generation in NCT of Delhi.	

			• In compliance of CPCB Directions u/s 5 of EP (A) Dated 19.05.2016, the Authorization under Hazardous and Other Waste (M&H) Rules, 2016 are not being granted w.e.f 31.07.2017. • A dedicated Hazardous Waste Management Cell is also being created for focussed implementation of HOWM Rules, 2016.DPCC is also under the process of upgradation of its laboratory including Hazardous Waste Analysis and its Characterization. • Directions for display of data outside main factory gate to units generating Hazardous Waste has already been issued time to time. Further while carrying out prior inspections for deciding the Consent to operate or its renewal the compliance of proper display of data outside main factory is noticed mandatorily during the inspections of such units. Only units complying with the proper display of data outside main factory are granted Consent to Operate.		
2.	Vide orders dated 26.08.2019 Hon'ble NGT	1. DPCC may ensure: a) All the hazardous waste generating units which are	In addition to action as elaborated above, • The quarterly report on action taken from 15.07.2019 to	In addition to the points elaborated above,	Not applicable as per HOWM Rules, 2016.

	directed that "All the <i>Chief Secretaries of the States/UTs</i> may be directed to submit biannually compliance report to CPCB by collecting information from State Government/Departments like Labour/Industries/Environment and SPCBs/PCC.	operating in state are complying with HOWM Rules, 2016 and generated waste is being managed in environmentally sound manner. b) Proper evaluation of the application, unit process to identify additional hazardous and other waste generated (other than declared by unit) to ensure proper disposal/regulation of the same and its inclusion in the authorizations/ consent. c) Authorization of centres notified by local bodies for collection of domestic Hazardous waste as per SWM Rules, 2016.	14.10.2019 is compiled and sent through online portal, developed by CPCB.	• Inspections of the 26 contaminated sites as provided by CPCB have started and shall be completed within next week. • Concerned Municipal authorities have been asked to provide collecting centres for domestic Hazardous waste and also inclusion domestic hazardous fluorescent and other mercury containing lamps into the ambit of Hazardous waste inventory.	
		d) Inclusion of domestic Hazardous waste and fluorescent and other mercury containing lamps into the ambit of HW. 2. Expedite setting up of domestic Hazardous waste collection centres in state and management of the same as per the SWM Rules, 2016 3. DPCC may expedite: a) Development of industrial			

		sectors, hazardous waste and other waste generation ranges. b) Setting up lab for analysis of all HW parameters as required under HOWM Rules, 2016. c) Setting up TSDF facility as per the requirement of the state.			
3.	Vide orders dated 12.04.2019 Hon'ble NGT directed that <i>"The committee recommends Hon'ble Tribunal to direct Chief Secretaries of States to ensure effective and urgent implementation of the provisions of the rules as stipulated under Rule5(2) of HOWM Rules, 2016 by Department of Labour"</i>	- As per the Rule5 (2), which is related to recognition and registration of workers involved in recycling, pre-processing and other utilization activities. - It is pertinent to mention here that at there is no TSDF/Recycling/pre-processing and other utilization activity in NCT of Delhi.	A Letter has been sent on 04.10.2019 to Department of Labour to direct the concerned officials to comply with the directions given in the aforesaid Hon'ble NGT order Dated 26.08.2019 and also comply with the provisions on stipulated under section 5(1), 5(2), 5(3) and schedule VII of HOWM Rules, 2016 and send compliance report to CPCB and this office in time bound manner.		Not applicable as per HOWM Rules, 2016.

Format for seeking information w.r.t Compliance to E-Waste Rules.

In the present OA 512/2018 (Shailesh Singh Vs. State of Uttar Pradesh) filled before Hon'ble NGT, Principal Bench, N-Delhi, the issue under consideration is management of e-waste consistent with the E-waste (Management) Rules, 2016. The grievance in this application is against unauthorized recycling/collection/dismantling units, burning and selling of e-waste and unscientific disposal of e-waste in violation of the Rules causing contamination of ground water, air pollution and soil acidification.

In compliance with the directions of the Hon'ble NGT, CPCB prepared an action plan for enforcement of E-Waste(M) Rules, 2016. The stakeholders responsible for implementation of the said action plan included, CPCB, SPCBs/PCCs, Custom Department, Ministry of Commerce, Ministry of Electronics & Telecommunication & District Administration of all the States. CPCB has also written to the PS to Chief Secretaries for the compliance of the action plan and requested for submission of Action Taken Report (ATR). Only few State Governments (District administration) have responded so far

CPCB may again write to all the Chief Secretaries seeking information w.r.t to compliance of E-Waste Rules in their respective states. The format for seeking information is as below:

S. N o.	Challenge s/Activities	Stakeholder responsible for implementation	Action	Current Status	Desirable level of compliance in terms of statutes	Gap between current status & desired level	Proposal for attending the gap with timelines	Name, designation, contact number of designated officer for ensuring compliance to the provisions under statute
a.	Checking of informal trading, dismantling and recycling of waste	SPCBs/PCCs/ District Administration	SPCBs/PCCs in coordination with District Administration has to carry out quarterly drive for checking of this activity.	With reference to the order of Hon'ble Supreme Court dated 07.05.2004 in WP (C) No. 4677 of 1985 titled as MC Mehta Vs Union of India & others the responsibility of closing down all illegal activities/ units in NCT of Delhi has been given to local bodies/ land owning agencies which are submitting regular ATR in this regard to Hon'ble Supreme Court through Industries Department. Accordingly, directions u/s 5 of EPA have been issued on 28.05.2019 to all the local bodies/ DDA regarding stoppage of illegal activity of informal trading, dismantling and recycling of e-waste in their respective areas of jurisdiction.	100% closure of illegal activities	In absence of base line data it can't be provided.	Local bodies have submitted an action plan along with time frame in the Hon'ble Supreme Court of India in case No. WP (C) No. 4677 of 1985 titled as MC Mehta Vs Union of India & others.	Commissioner (MCDs)
b.	Facilitate collection and disposal of e- waste	SPCBs/PCCs/ District Administration/ CPCB	State Government to formulate mechanism for collection and for incentivizing setting up of recycling facilities.	Under the Solid Waste Management Rules, 2016, all the local bodies are required to set up material recovery system for e-waste collected from households integrating NGOs and informal collectors. Apart from this the e-waste is collected by the Producers through their collection chain, as mentioned in EPR authorization granted by CPCB on pan India basis. At present, no recycling facilities are permitted in NCT of Delhi.	100% through local civic authorities.	In absence of base line data, it can't be provided.	Local bodies to provide the same.	Commissioner (MCDs)

c.	Governance framework for monitoring compliance	SPCBs/PCCs / District Administration/ CPCB	Monitoring to be ensured at city/district and state levels for which nodal officers (state environmental secretary, district collector, CMD/ Commissioners) to be designated. Time Frame — (3) months	The compliance of E-waste management shall be monitored by the District Plan Committees formed under the Chairmanship of concerned District Magistrate and comprising of officials from different organisations.	100%	In absence of base line data, it can't be provided.	District Committees shall provide the time lines.	Concerned District Magistrate
d.	Capacity building at district/State/ CPCB level	SPCBs/PCCs / District Administration/ CPCB	Special workshops to educate functionaries in government / NGOs be run over one year.	Awareness to be coordinated/ spread by District Plan Committees/ Special Task Force formed under the Chairmanship of concerned District Magistrate.	Special workshop to be conducted by experts at regular intervals over one year.	In absence of base line data, it can't be provided.	District Committees shall provide the timelines	Concerned District Magistrate
e.	IEC plan be firm ed up and executed	SPCBs/PCCs / District Administration/ CPCB	State Government to firm up IEC plan for educating public at large about the system of collection, incentive structure and facilities for recycling. Time Frame — Three (3) months. The IEC Plan to be executed over one year.	Education of public to be coordinated/ spread by District Plan Committees/ Special Task Force formed under the Chairmanship of concerned District Magistrate in co-ordination with local bodies. At present, no recycling facilities are permitted in NCT of Delhi.	Extensive awareness program to be conducted at regular interval.	In absence of base line data, it can't be provided.	District Committees shall provide the time lines.	Concerned District Magistrate
f.	Strengthen system of enforcement	SPCBs/PCCs / District Administration/ CPCB	Quarterly review of violations and enforcement actions at city/district/state level and quarterly reports to be filed with CPCB.	District Plan Committees formed under the Chairmanship of concerned District Magistrate shall review violations and enforcement of actions quarterly.	100%	In absence of base line data, it can't be provided.	District Committees shall provide the time lines.	Concerned District Magistrate

At present no such comprehensive survey/ No exercise drive has been undertaken for checking of informal trading, dismantling and recycling of e-waste. However, DPCC in coordination with local bodies has closed down 36 illegal unit e-waste processing units w.r.t a case in Hon'ble NGT.

ANNEXURE-VI

Compliance to Hon'ble NGT Directions for Control of River Pollution

1. Name of State/ UT : **Delhi**
2. No of identified Polluted River Stretches P-I to P-V : **One (P-I) [Wazirabad to Asgarpur Village- 22 KM, Priority-I Stretch]**
3. Water Quality

A. Polluted River Stretch (Range in Year 2019)

BOD (mg/l)	Min	7.6 (Kudesia Ghat)
	Max	50 (D/s Okhla Barrage after meeting Shahdra Drain)
Fecal Coliform (MPN/100ml)	Min	70×10^4 (Nizamuddin Bridge)
	Max	14×10^8 (ITO Bridge)

In absence of FC, TC may be given

- B. Has the State identified all pollution contributing drains** : **Yes** [Details are given in Table 1]
- 4. Action plan addressing the gaps**
- A. Gap assessment in sewage treatment completed** : **Yes** [Details are given in Table 2]
- B. Gap assessment for industrial pollution completed** : **Yes** [Details are given in Table 3]
- C. Solid waste management addressed** : **Yes** [Details are given in Table 4]
- D. Other Wastes** : **Yes** [Details are given in Table 5]
- 5. Measures taken for**
- A. Control of Illegal Ground Water Abstraction** : **Yes** [Regulation vide Notification dated 12.07.2010 of Environment Department, GNCTD]
- B. River catchment/ Basin Management** : **Yes** [Drain owning agencies and other concerned Deptts.]
- C. Flood Plain Zone Protection** : **Yes** [By DDA as per NGT Orders in OA 06/2012]
- D. E Flow maintenance & Watershed Management** : **To assess the minimum required environmental flow of river Yamuna, a comprehensive study has been assigned to National Institute of Hydrology (NIH), by NMCG on 24.12.2018. Interim Report received and Final Report is to submit by March, 2020 as per order dated 11.09.2019 in No. OA 06/2012**
- E. Ground water recharge/ Rain water harvesting** : **Yes** [Compliance w.r.t. notifications issued by CGWA and various orders passed by Hon'ble NGT]
- F. Setting up of Biodiversity Parks, Greenery/ plantation along the banks of river stretch** : **Yes** [DDA and Forest Deptt. as per order dated 11.09.2019 in No. OA 06/2012]
- G. Removal of encroachments** : **Yes** [By DDA as per NGT Orders in OA 06/2012]
- 6. Progress in line with target dates of March 2021** : **Yes**

[In most of the projects however in some projects of DJB Timeline given by DJB is 31.12.2022 due to contractual Agreement with contractors]

Table 1: Details of Drains Contributing to Pollution in Polluted River stretch

River Stretch : Wazirabad to Asgarpur Village				Priority: I	
S.No	Drain	Type Domestic/ Industrial/ mixed	Quantity (MLD) Average flow for 2019 (as per CPCB report)	BOD (in mg/l) Average for 2019 (as per DPCC Lab report)	FC (MPN/100ml)
1	Najafgarh Drain (including supplementary drain)	Domestic/ Industrial/ mixed	1938.38	38.33	At present DPCC does not have facility for monitoring of Total / Faecal Coliform. The bacteriological tests are conducted by CPCB laboratory. DPCC is under the process of developing its own facility for analysis of Bacteriological Parameters including Faecal Coliform by March, 2020.
2	Shahdara Drain	- Do -	500.97	51.325	
3	Waste water input into abandoned Agra Canal	- Do -	117.93	-	
4	Barapulla Drain	- Do -	151.77	64.6	
5	Tuglakabad Drain	- Do -	22.10	68.025	
6	Delhi Gate (Power House) Drain	- Do -	39.02	57.15	
7	Sen Nursing Home Drain	- Do -	31.53	86.475	
8	ISBT + Mori Gate Drain	- Do -	37.94	58.25	
9	Sarita Vihar Drain	- Do -	35.68	52.425	
10	Maharani Bagh Drain	- Do -	30.16	70.525	
11	Jaitpur Drain	- Do -	19.58	-	
12	Molar Bandh Drain	- Do -	22.17	-	
13	Kailash Nagar Drain	- Do -	9	-	
14	Tonga Stand Drain	- Do -	4.46	59.075	
15	Drain No.14	- Do -	6.54	16.9	
16	Magazine Road Drain	- Do -	4.32	71.13	
17	Civil Mill Drain	- Do -	11.14	79.54	
18	Metcalf House Drain	- Do -	3.45	22.43	
19	Sweeper Colony Drain	- Do -	5.4	18.59	
20	Khyber Pass Drain	- Do -	No flow	-	
21	Tehkhand Drain	- Do -	-	56.575	
22	Abu Fazal Drain	- Do -	28.94	-	
23	Shastri Park Drain	- Do -	5.76	-	
			3026.24 MLD		

Table 2: Details for Sewage Management (in MLD)

Generated	Processed/ Treated	Gap
3273 MLD	2273 MLD	1000 MLD

Table 3: Details for Industrial Effluent Management (in MLD) (For 28 Approved Industrial Areas)

Generated	Processed/ Treated	Gap
28 MLD (Appx.) (From 17 Approved Industrial Areas)	13 CETPs are having capacity of 212.3 MLD and average flow received at CETPs is 53.4 MLD	- 158.9 MLD (212.3 - 53.4)
8 MLD (Appx.) (From remaining 11 Approved Industrial Areas)	Rest of the 11 Approved industrial areas out of 28 Approved Industrial Areas are not having CETPs as they are not generating substantial liquid waste. The units which are operational in non-CETP industrial areas have individual ETPs /Waste Water Treatment Facilities.	Water Polluting Units which are less in these Industrial Areas have their own captive ETPs and therefore there is no GAP

Table 4: Details for MSW (in TPD)

Generated	Processed/ Treated	Gap
11144 TPD (Approx.)	5752 TPD (Approx.)	5392 TPD (Approx.)

Table 5: Details for Other Wastes (in TPD)

Type of Waste	Generated	Processed/ Treated	Gap
BMW	26.7 TPD (Approx.)	26.7 TPD (Approx.)	Nil
HW	15 TPD (Approx.)	Presently No TSDF in Delhi [TSDF is to be developed at Bawana]	[2 CBWTFs with Capacity of 63 TPD] 15 TPD Since at present there is no TSDF for Hazardous Waste in Delhi, Industries / Units and CETPs are storing their Hazardous Waste (ETP/CETP Sludge etc.) at the site. Authorization has been given by DPCC to 2 Operators of TSDF in U.P (Kanpur Dehat) for Collection, Reception, Transportation and Disposal of incinerable hazardous waste generated by the units operating in NCT of Delhi. Besides above, Authorisation under the HOWM & TBM Rules, 2016 has been granted to Gujrat Enviro Protection & Infrastructure Limited, for collection , transportation, pre-processing, co-processing and disposal of sludge from CETPs in Delhi to its facility at Chittorgarh in Rajasthan.
Plastic Waste	1500 TPD (Approx.) (as estimated by CPCB)	138.3 TPD (Approx.)	1361.7 TPD (Approx.)
E Waste	82 TPD (Approx.) (30,000 Tons / year)	E-Waste Reprocessing / Recycling Facility is not permitted in Delhi as per MPD - 2021. E-waste generated in Delhi goes to E Waste Reprocessing/ Recycling Facilities in neighbouring States.	82 TPD (Approx.)
C& D Waste	3900 TPD (Approx.)	2650 TPD (Approx.)	1250 TPD (Approx.)

Information about Sewage Management in Delhi ANNEXURE - VII

Sl.No.		Issue	Remarks
1	a	Quantity of Sewage generated in the State	3269 MLD (720 MGD)
2	a	Quantity of Sewage treated in the State	2270 MLD (500 MGD)
3	a	Existing Coverage of Sewerage Network	77%
4	a	Has Sewage generation (town / City wise) been estimated for present and future population? Please provide details of the same.	Yes. 1. Present treatment capacity = 597 MGD Short fall in the treatment capacity = 720-597 =123 MGD (558 MLD) 2. Quantum of water supply and sewage generation will remain static unless upstream storage like Renuka, Lakhwar-Vyasi & Kishau Dam are completed and commissioned.
5	a	Has adequate treatment capacity been developed for treatment of sewage?	No. Action Plan has been prepared by DJB to have adequate treatment capacity for sewage in Delhi. 1. Present Installed capacity of the STPs- 2710 MLD(597MGD) 2. Treatment capacity of STPs will be enhanced to 707 MGD by December, 2022 after rehabilitation /augmentation of Okhla, Rithala, Kondli & Coronation Pillar STPs. 3. After construction of STPs at mouth of Mori Gate & Barapulla Drains, the capacity of sewage treatment will further enhance to 736 MGD by December,'2024. 4. After completion of 57 Decentralized STPs having capacity of about 157 MGD, treatment capacity will be enhanced to 900 MGD
	b	If not, then what is present percentage of sewage being treated?	70%
	c	If not, please provide the the timeframe by which all sewage generated in the State shall be treated	2031
6	a	Please provide details of STPs (Town/ City Wise) along with details on compliance status and treatment capacity	Details of functional STPs is given at <u>Annexure - "A"</u>
7	a	Is entire sewage generated from each town being linked with sewerage network in the state?	No. The work is being carried out in a phased manner.

Information about Sewage Management in Delhi ANNEXURE - VII

Sl.No.	Issue	Remarks
	b If not, then what is the present current percentage of sewage being collected through the existing sewerage network?	70%
	c If not, then please provide the timeframe by which all sewage generated in the State shall be collected through sewerage network	2031
8	a Have all drains carrying waste water in each town / city been identified	Yes. I&FCD, PWD, DMCs, NDMC, Cantonment Board, DDA etc. are the Drain Owning / Maintaining Agencies in Delhi. Details of
	b Provide details on the pollution load due to these drains	Drains out falling into river Yamuna alongwith pollution load is given at <u>Annexure - "B"</u>
	c Has in-situ treatment of wastewater being carried out in all such drains for reduction of pollution load?	In- situ treatment by Phyto- remediation / Bio-remediation is to be carried out by Drain owning agencies in consultation with CPCB as per the directions of Hon'ble NGT in OA No. 673/2018 and order dated 22.01.2020 in OA No. 06 / 2012 in the matter of Manoj Mishra Vs. UOI & Ors.
	d If not, then please indicate the number of drains in which in-situ treatment of waste water has commenced	-- Do --
	e If not, then please provide the the timeframe within which in-situ treatment of wastewater shall be carried out in all such drains for reduction of pollution load	-- Do --
9	a Have all bulk users for reuse of wastewater been identified ?	Yes
	b Is all treated wastewater from the STPs being reused for different purposes?	No. At present 409 MLD (90 MGD) of treated effluent from STPs is being reused.
	c If not, then what is current percentage of wastewater being reused?	18%
	d If not, then please provide the timeframe within which all treated wastewater from STP shall be reused for different purposes	DJB is regularly pursuing with DDA, NDMC, Municipal Corporations, CPWD, DMRC, PWD, DUSIB to maximize their utilization of treated effluent for non potable uses

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

ANNEXURE-VII (A)

Sl. No	City/ Town	No. of STP	Name of STP	Location of each STP	Coordinates of STP (Latitude and Longitude)	STP Commissi oned in (Year)	Status (Operational/ Non- Operational/ Under Construction)	STP Installed Capacity (in MLD)	Actual Utilizatio n of Installed Capacity (in MLD)	Technology (UASB/AS P/OP/SBR/ MBR/FAB Etc.	Consent Status	Compliance Status (Based on DPCC Analysis Reports for January, 2020)							
												pH	TSS	COD	BOD				
1	Delhi	1	Mehrauli	Mehrauli	28.51/ 77.19	2003	Operational	22.73	18.18	ASP/Extend ed aeration	Applied on 04.10.2018	7.6	Meeting the Prescribed Standards of 5.5-9	56	Not meeting the Prescribed Standards of ≤ 10 mg/l	120	Not Meeting the Prescribed Standards of ≤ 50 mg/l	40	Not meeting the Prescribed Standards of ≤ 10 mg/l
2	Delhi	1	12 MGD Ph-II	Okhla	28.52/ 77.28	1983	Operational	54.5	27.3	ASP	Applied on 30.07.2018	6.7	Meeting the Prescribed Standards of 5.5-9	38	Not meeting the Prescribed Standard of ≤ 10 mg/l	68	Not Meeting the Prescribed Standards of ≤ 50 mg/l	26	Not meeting the Prescribed Standard of ≤ 10 mg/l
3	Delhi	1	37 MGD Ph-III	Okhla	28.52/ 77.28	1993	Operational	168.2	113.6	ASP	Applied on 30.07.2018	6.7	Meeting the Prescribed Standards of 5.5-9	24	Not meeting the Prescribed Standard of ≤ 10 mg/l	44	Meeting the Prescribed Standards of ≤ 50 mg/l	16	Not meeting the Prescribed Standard of ≤ 10 mg/l
4	Delhi	1	45 MGD Ph-IV	Okhla	28.52/ 77.28	1993	Operational	204.5	168.2	ASP	Applied on 30.07.2018	6.8	Meeting the Prescribed Standards of 5.5-9	26	Not meeting the Prescribed Standard of ≤ 10 mg/l	48	Meeting the Prescribed Standards of ≤ 50 mg/l	18	Not meeting the Prescribed Standard of ≤ 10 mg/l

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

ANNEXURE-VII (A)

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												pH		TSS		COD		BOD	
5	Delhi	1	16 MGD Ph-V	Okhla	28.52/ 77.28	2001	Operational	72.7	54.5	ASP	Applied on 30.07.2018	6.7	Meeting the Prescribed Standards of 5.5-9	30	Not meeting the Prescribed Standard of ≤ 10 mg/l	48	Meeting the Prescribed Standards of ≤ 50 mg/l	18	Not meeting the Prescribed Standard of ≤ 10 mg/l
6	Delhi	1	New 30 MGD Ph- VI	Okhla	28.52/ 77.28	2012	Operational	136.4	136.4	ASP	CTO valid upto 18.09.2022	7	Meeting the Prescribed Standards of 5.5-9	8	Meeting the Prescribed Standard of ≤ 10 mg/l	16	Meeting the Prescribed Standards of ≤ 50 mg/l	4	Meeting the Prescribed Standard of ≤ 10 mg/l
7	Delhi	1	0.66 MGD Molar Band	Gautam Puri	28.50/ 77.30	2009	Operational	3	2.5	FAB	Applied on 01.02.2018	6.8	Meeting the Prescribed Standards of 5.5-9	38	Not meeting the Prescribed Standard of ≤ 10 mg/l	76	Not Meeting the Prescribed Standards of ≤ 50 mg/l	24	Not meeting the Prescribed Standard ≤ 10 mg/l)
8	Delhi	1	Sen Nursing Home Nallah	Sen Nursing Home Nallah	28.37/ 77.15	1998	Operational	10	10	ASP	Not applied for CTO (R) Earlier CTO was valid upto 18.04.2019	7.8	Meeting the Prescribed Standards of 5.5-9	4	Meeting the Prescribed Standard of ≤ 10 mg/l	8	Meeting the Prescribed Standards of ≤ 50 mg/l	2	Meeting the Prescribed Standard of ≤ 10 mg/l

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

ANNEXURE-VII (A)

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												pH		TSS		COD		BOD	
9	Delhi	1	Vasant Kunj B-4 Old (Ph-I)	Vasant Kunj	28.31/77.10	1988	Operational	10	7	ASP/Extended aeration	Applied on 20.03.2019	7.7	Meeting the Prescribed Standards of 5.5-9	28	Not meeting the Prescribed Standards of ≤ 10 mg/l	48	Meeting the Prescribed Standards of ≤ 50 mg/l	18	Not meeting the Prescribed Standards of ≤ 10 mg/l
10	Delhi	1	Vasant Kunj B-4 New (Ph-II)	Vasant Kunj	28.31/77.10	1998	Operational	13.7	7.5	ASP/Extended aeration	Applied on 20.03.2019	7.6	Meeting the Prescribed Standards of 5.5-9	34	Not meeting the Prescribed Standard of ≤ 10 mg/l	68	Not Meeting the Prescribed Standards of ≤ 50 mg/l	26	Not meeting the Prescribed Standard of ≤ 10 mg/l
11	Delhi	1	Ghitorni STP	Ghitorni	28.30/77.08	2016	Operational	22.73	1.5	ASP/Extended aeration	CTO valid upto 19.02.2023	—	—	—	—	—	—	—	—
12	Delhi	1	Delhi Gate Ph-I	Delhi gate	28.38/77.15	1998	Operational	10	10	ASP	Not applied for CTO (R) Earlier CTO was valid upto 23.06.2018	7.1	Meeting the Prescribed Standards of 5.5-9	8	Meeting the Prescribed Standard ≤ 10 mg/l)	16	Meeting the Prescribed Standards of ≤ 50 mg/l	6	Meeting the Prescribed Standard ≤ 10 mg/l)
13	Delhi	1	Delhi Gate Ph-II	Delhi gate	28.38/77.15	2016	Operational	68	68	ASP	CTO is valid upto 22.07.2020	7.6	Meeting the Prescribed Standards of 5.5-9	6	Meeting the Prescribed Standard of ≤ 10 mg/l	12	Meeting the Prescribed Standards of ≤ 50 mg/l	4	Meeting the Prescribed Standard of ≤ 10 mg/l

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

ANNEXURE-VII (A)

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												pH		TSS		COD		BOD	
14	Delhi	1	Kondli Ph-II	Dallupura	28.589559/ 77.301678	1999	Operational	113	68	ASP	CTO is valid upto 13.08.2022	7.8	Meeting the Prescribed Standards of 5.5-9	16	Not meeting the Prescribed Standard $\leq$ 10 mg/l)	24	Meeting the Prescribed Standards of $\leq$ 50 mg/l	8	Meeting the Prescribed Standard against $\leq$ 10 mg/l)
15	Delhi	1	Kondli Ph-IV	Dallupura	28.589559/ 77.301678	2013	Operational	204	195	ASP	Not applied for CTO (R) Earlier CTO was valid upto 08.05.2019	7.8	Meeting the Prescribed Standards of 5.5-9	14	Not meeting the Prescribed Standard $\leq$ 10 mg/l)	32	Meeting the Prescribed Standards of $\leq$ 50 mg/l	10	Meeting the Prescribed Standard of $\leq$ 10 mg/l)
16	Delhi	1	Chilla	Near New Ashok Nagar, Metro Station	28.3855/ 77.1758	2014	Operational	40	40	SBR	CTO valid upto 23.10.2020	7.6	Meeting the Prescribed Standards of 5.5-9	10	Meeting the Prescribed Standard $\leq$ 10 mg/l)	16	Meeting the Prescribed Standards of $\leq$ 50 mg/l	6	Meeting the Prescribed Standard $\leq$ 10 mg/l)
17	Delhi	1	Yamuna Vihar Ph-I	Near Ambedkar College	28.7085/ 77.2353	1998	Operational	45	27	ASP	Applied for CTO (R) on 23.09.2019 Earlier CTO was valid upto 08.11.2018	7.8	Meeting the Prescribed Standards of 5.5-9	58	Not meeting the Prescribed Standard $\leq$ 10)	96	Not meeting the Prescribed Standards of $\leq$ 50 mg/l	36	Not meeting the Prescribed Standard $\leq$ 10mg/l)

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

ANNEXURE-VII (A)

Sl. No	City/ Town	No. of STP	Name of STP	Location of each STP	Coordinates of STP (Latitude and Longitude)	STP Commissi oned in (Year)	Status (Operational/ Non- Operational/ Under Construction)	STP Installed Capacity (in MLD)	Actual Utilizatio n of Installed Capacity (in MLD)	Technology (UASB/AS P/OP/SBR/ MBR/FAB Etc.	Consent Status	Compliance Status (Based on DPCC Analysis Reports for January, 2020)							
												pH		TSS		COD		BOD	
18	Delhi	1	Yamuna Vihar Ph-II	Near Ambedkar College	28.7085/ 77.2353	2002	Operational	45	22	ASP	—	7.9	Meeting the Prescribed Standards of 5.5-9	66	Not meeting the Prescribed Standard mg/l against ≤ 10)	124	Not meeting the Prescribed Standards of ≤ 50 mg/l	42	Not meeting the Prescribed Standard of ≤ 10)
19	Delhi	1	Yamuna Vihar Ph-III	Near Ambedkar College	28.7085/ 77.2353	2015	Operational	113	81	ASP	Not applied for CTO (R) Earlier CTO valid upto 25.02.2020	8.1	Meeting the Prescribed Standards of 5.5-9	36	Not meeting the Prescribed Standard of ≤ 10)	76	Not Meeting the Prescribed Standards of ≤ 50 mg/l	24	Not meeting the Prescribed Standard of ≤ 10)
20	Delhi	1	Akshardha m CWG	Near Akshardha m Metro Station.	28.635482/ 77.254206	2010	Operational	4.5	0.9	MBR	Applied for CTO (R) on 30.07.2019	7.8	Meeting the Prescribed Standards of 5.5-9	6	Meeting the Prescribed Standards of ≤ 10 mg/l	12	Meeting the Prescribed Standards of ≤ 50 mg/l	4	Meeting the Prescribed Standards of ≤ 10 mg/l
21	Delhi	2	Ph I&II STP Coronatio n Pillar	Coronatio n Pillar	28.721788/ 77.189100	1957-2000	Operational	90.8	88.53	Trickling Filters/ASP	CTO valid upto 31.08.2022	7.8	Meeting the Prescribed Standards of 5.5-9	76	Not meeting the Prescribed Standard of ≤ 10 mg/l	164	Not meeting the Prescribed Standards of ≤ 50 mg/l	54	Not meeting the Prescribed Standard ≤ 10 mg/l)

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

ANNEXURE-VII (A)

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												pH		TSS		COD		BOD	
22	Delhi	1	Ph III STP Coronatio n Pillar	Coronatio n Pillar	28.725201/ 77.189607	2001	Operational	45.4	38.59	ASP	CTO valid upto 31.08.2022	7.5	Meeting the Prescribed Standards of 5.5-9	52	Not meeting the Prescribed Standard of ≤ 10 mg/l)	96	Not meeting the Prescribed Standards of ≤ 50 mg/l	36	Not meeting the Prescribed Standards ≤ 10 mg/l)
23	Delhi	1	Narela STP	Narela	28.836413/ 77.135797	2000	Operational	45.4	18.16	ASP	Applied on 14.09.2018	7.4	Meeting the Prescribed Standards of 5.5-9	32	Not meeting the Prescribed Standard of ≤ 10 mg/l	64	Not meeting the Prescribed Standards of ≤ 50 mg/l	26	Not meeting the Prescribed Standard ≤ 10 mg/l)
24	Delhi	1	Rithala Ph- I	Rithala	28.726853/ 77.09969	1991	Operational	181.6	106.69	ASP	CTO valid upto 30.10.2022	7.1	Meeting the Prescribed Standards of 5.5-9	68	Not meeting the Prescribed Standard of ≤ 10 mg/l	136	Not meeting the Prescribed Standards of ≤ 50 mg/l	48	Not meeting the Prescribed Standard ≤ 10 mg/l)
25	Delhi	1	Rithala Ph- II	Rithala	28.730030/ 77.100476	2001	Operational	181.6	186.14	ASP	Applied for CTO (R) on 07.12.2018	7.4	Meeting the Prescribed Standards of 5.5-9	24	Not meeting the Prescribed Standard of ≤ 10 mg/l	48	Meeting the Prescribed Standards of ≤ 50 mg/l	16	Not meeting the Prescribed Standard of ≤ 10 mg/l

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

ANNEXURE-VII (A)

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												pH		TSS		COD		BOD	
26	Delhi	1	Rohini Sector 25	Rohini	28.7365365/77.1018607	2002	Operational	68.1	22.7	ASP	Applied on 28.05.2019	7.5	Meeting the Prescribed Standards of 5.5-9	34	Not meeting the Prescribed Standard ≤ 10 mg/l)	64	Not meeting the Prescribed Standards of ≤ 50 mg/l	22	Not meeting the Prescribed Standard of ≤ 10 mg/l)
27	Delhi	1	Keshopur Ph-I	Keshopur	28.65408/77.07819	1957	Operational	54.48	54.48	ASP	Not applied for CTO (R) Earlier CTO valid upto 18.01.2020	7.4	Meeting the Prescribed Standards of 5.5-9	58	Not meeting the Prescribed Standard of ≤ 10 mg/l	112	Not meeting the Prescribed Standards of ≤ 50 mg/l	38	Not meeting the Prescribed Standard ≤ 10 mg/l)
28	Delhi	1	Keshopur Ph-II	Keshopur		1975	Operational	90.8	95.34	ASP	Not applied for CTO (R) Earlier CTO valid upto 01.01.2020	7	Meeting the Prescribed Standards of 5.5-9	74	Not meeting the Prescribed Standard ≤ 10 mg/l)	188	Not meeting the Prescribed Standards of ≤ 50 mg/l	62	Not meeting the Prescribed Standard ≤ 10 mg/l)
29	Delhi	1	Keshopur Ph-III	Keshopur		1990	Operational	181.6	186.14	ASP	Not applied for CTO (R) Earlier CTO valid upto 01.01.2020	7	Meeting the Prescribed Standards of 5.5-9	86	Not meeting the Prescribed Standard of ≤ 10 mg/l	184	Not meeting the Prescribed Standards of ≤ 50 mg/l	65	Not meeting the Prescribed Standards ≤ 10 mg/l)

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

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												pH		TSS		COD		BOD	
30	Delhi	1	Nilothi Phase-I	Nilothi	28.65346 /77.04839	2002	Operational	181.6	68.1	ASP	Applied for CTO (R) on 25.04.2019	STP was found non- operational at the time of DPCC monitoring.							
31	Delhi	1	Nilothi Phase-II	Nilothi	28.65337/ 77.04802	2015	Operational	90.8	88.53	ASP	CTO valid upto 26.06.2021	7.1	Meeting the Prescribed Standards of 5.5-9	10	Meeting the Prescribed Standard of ≤ 10 mg/l	16	Meeting the Prescribed Standards of ≤ 50 mg/l	6	Meeting the Prescribed Standard of ≤ 10 mg/l
32	Delhi	1	Papankala n Ph-I	Papankala n (Dwarka)	28.583807/ 77.022223	2002	Operational	90.8	108.96	ASP	Applied for CTO (R) on 24.06.2019	7.6	Meeting the Prescribed Standards of 5.5-9	78	Not meeting the Prescribed Standard of ≤ 10 mg/l	156	Not meeting the Prescribed Standards of ≤ 50 mg/l	56	Not meeting the Prescribed Standard ≤ 10 mg/l)
33	Delhi	1	Papankala n Ph-II	Papankala n (Dwarka)	28.583807/ 77.022223	2015	Operational	90.8	90.8	ASP	Applied for CTO (R) on 11.04.2019	7.7	Meeting the Prescribed Standards of 5.5-9	26	Not meeting the Prescribed Standard of ≤ 10 mg/l	48	Meeting the Prescribed Standards of ≤ 50 mg/l	18	Not meeting the Prescribed Standard of ≤ 10 mg/l

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

ANNEXURE-VII (A)

Sl. No	City/ Town	No. of STP	Name of STP	Location of each STP	Coordinates of STP (Latitude and Longitude)	STP Commis- ioned in (Year)	Status (Operational/ Non- Operational/ Under Construction)	STP Installed Capacity (in MLD)	Actual Utilizatio n of Installed Capacity (in MLD)	Technology (UASB/AS P/OP/SBR/ MBR/FAB Etc.	Consent Status	Compliance Status (Based on DPCC Analysis Reports for January, 2020)							
												pH		TSS		COD		BOD	
34	Delhi	1	Najafgarh	Najafgarh	28.604882/ 77.010143	2002	Operational	22.7	11.35	Extended Aeration	Applied for CTO (R) on 10.12.2018 Earlier CTO was valid upto 10.12.2018	7.6	Meeting the Prescribed Standards of 5.5-9	54	Not meeting the Prescribed Standard of ≤ 10 mg/l)	96	Not meeting the Prescribed Standards of ≤ 50 mg/l	36	Not meeting the Prescribed Standard ≤ 10 mg/l)
35	Delhi	1	Kapashera	Kapashera	28.522353/ 77.074137	2014	Operational	22.7	8.17	SBR	Not applied for CTO(R) Earlier CTO was valid upto 06.02.2018	7.6	Meeting the Prescribed Standards of 5.5-9	16	Not meeting the Prescribed Standards of ≤ 10 mg/l	10	Meeting the Prescribed Standards of ≤ 50 mg/l	10	Meeting the Prescribed Standards of ≤ 10 mg/l
36	Delhi	1	Kondli Phase-I	Kondli	—	1987	Under Rehabilitation	45.4	—	Activated Sludge Process (ASP)	—	—	—	—	—	—	—	—	—
37	Delhi	1	Kondli Phase-III	Kondli	—	2001	Under Rehabilitation	45.4	—	Activated Sludge Process (ASP)	—	—	—	—	—	—	—	—	—
38	Delhi	1	Coronatio n Pillar (Old)	Coronatio n Pillar	—	1957	Under Rehabilitation	90.8	—	Activated Sludge Process (ASP)	—	—	—	—	—	—	—	—	—

FORMAT FOR SEWAGE TREATMENT PLANTS AND UTILIZATION OF SEWAGE

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												pH		TSS		COD		BOD	
39	Delhi	1	Bakkarwal a (Mini STP)	Bakkarwal a	—	—	Closed	3	—	FAB	—		—		—		—		—
40	Delhi	1	Timarpur Oxidation Pond	Nehru Vihar	—	1947	Closed	—	—	Oxidation Pond	—		—		—		—		—
Total							Operational - 35 Under Rehabilitation - 3 Closed - 2												

ANNEXURE – VII (B)

Drains Outfalling into River Yamuna alongwith Pollution Load (Based on the CPCB Data for the years 2017, 2018 & 2019 as mentioned in the 3rd Interim Report Dated 05.02.2020 of the Yamuna Monitoring Committee appointed by Hon'ble NGT)

S. No.	Name of Drain	Flow (in MLD) 2017	Flow (in MLD) 2018	Flow (in MLD) 2019	BOD Load (in TPD) 2017	BOD Load (in TPD) 2018	BOD Load (in TPD) 2019
1	Najafgarh Drain	2042.3	2066.7	1938.38	132.55	101.29	133.82
2	Shahdara Drain	513.9	473.5	500.97	41.26	38.95	61.44
3	Waste water input into abandoned Agra Canal	260	218	117.93	33.5	30.63	21.54
4	Barapulla Drain	136.3	151.2	151.77	10.3	9.06	10.46
5	Tuglakabad Drain	88.9	45.8	22.10	9.12	3.25	3.42
6	Delhi Gate (Power House) Drain	84.8	47.5	39.02	6.26	3.31	3.43
7	Sen Nursing Home Drain	64.4	41	31.53	9.45	5.29	4.69
8	Abu Fazal Drain	50.9	35	28.94	1.54	1.08	0.88
9	ISBT + Mori Gate Drain	45.2	51	37.94	2.89	3.06	2.67
10	Sarita Vihar Drain	40.8	26	35.68	9.9	6.02	7.73
11	Maharani Bagh Drain	26.5	24.2	30.16	3.03	2.43	3.51
12	Jaitpur Drain	16.6	23.3	19.58	2.28	3.39	3.07
13	Molar Bandh Drain	14	19	22.17	1.98	2.07	2.36
14	Kailash Nagar Drain	11.9	7.8	9	3.15	2.82	2.70
15	Tonga Stand Drain	11.4	7.8	4.46	1.75	1.18	0.59
16	Shastri Park Drain	7.6	4.3	5.76	0.84	0.46	0.75
17	Drain No.14	7.3	4.3	6.54	0.13	0.05	0.07
18	Magazine Road Drain	7.1	6	4.32	0.54	0.44	0.30
19	Civil Mill Drain	6.3	8.6	11.14	0.5	0.57	0.67
20	Metcalf House Drain	6.1	4.3	3.45	0.2	0.12	0.11
21	Sweeper Colony Drain	6	6	5.4	0.16	0.18	0.10
22	Khyber Pass Drain	1.3	-	No Flow	0.03	-	No Flow
	Total	3449.6	3271.3	3026.24	271.36	215.65	264.31

FORMAT FORM FOR NOISE POLLUTION

S.No.	Content	Current Status	Desirable	Gap	Time Line
1	No. of Stations for Ambient Noise Monitoring	05	31	26	2 Months work already awarded
2	No. of Stations in Industrial Zone	Nil	5	5	
3	No. of Stations in Commercial Zone	02	10	8	
4	No. of Stations in Residential Zone	01	9	8	
5	No. of Stations in Silence Zone	02	7	5	
6	Compliance of Ambient Standards (No. of Stations) Industrial Zone Commercial Zone Residential Zone Silence Zone	Not complying at most of the Stations.	-	-	-
7	Identification of Hot Spots	Local Bodies are working on, final list is not yet submitted	-	-	-
8	Designated Authorities defined as per Noise Rules(Y) (Details to be provided)	DCs (Revenue), SDMs, Asstt. Commissioners of Police Control Room & Traffic, all Sub-Divisional Police Officers including Railways and Airports and Chairman and MS DPCC are designated Authorities. Notification Enclosed.	-	-	Complied
9	Has Methodology been prepared for granting permission for installation of Public Address System? (Y/N) (Details to be provided)	Yes. Permission is being granted by Delhi Police.	-	-	-
10	Has Methodology been prepared for redressal of complaint on noise pollution? (Y) (Details to be provided)	Helpline 24X7, number 155271 and Exclusive Website ngms.delhi.gov.in is operational.	100%	NIL	Complied
11	No. of Police Stations equipped with Sound Level Meter	56 (Noise Meters are at ACP Level)	-	-	-
12	No. of Police Stations having officers trained as per Noise Pollution Rules by SPCBs / PCCs.	DPCC has provided the training as requested by DCP, PCR Model Town Delhi three times. Training was arranged with Deptt. of Environment for Police Officers and other Designated Officers.	-	-	Complied
13	Has Protocol been developed for taking appropriate action against the defaulters?	Yes, prepared and sent to DCP, PCR Model Town Delhi.	-	-	Complied
14	No. of cities in which Noise mapping has been done (if applicable)	CPCB has been assigned to undertake Noise Mapping by NGT in Hardeep Singh Vs Union of India & Ors (OA No. 519).	-	-	-

ANNEXURE VIII(B)**Format For State Wise Review Of Compliance To Hon'ble NGT
Directions For Control Of Air Pollution In Non-Attainment Cities**

1	Name of the State/UT	Delhi
2	Number of cities identified as Non-attainment cities	Delhi
3	Detail on Air quality monitoring infrastructure with regard to Manual, real time station	38 Real time station are operational
4	Whether city action plans prepared for all Non-attainment Cities	Yes (Comprehensive Action Plan is submitted to CPCB)
5	Whether the assessment and installation of the requisite number of monitoring stations in the non-attainment cities completed	The committee formed by CPCB assessed and found 38 is the optimum number of continuous Monitoring stations for Delhi City. Installed- 38
6	Have polluting sources identified (Source Apportionment/Emission Inventory)	Yes (Table -I)
7	Does short term actions to control dust emissions as per city action plan, regularly implemented &monitored?	Yes (Table-II)
8	Does short term actions to control emissions from waste burning and dumping as per city action plan, regularly implemented &monitored?	Yes (Detail Annexed in Table-III)
9	Micro level planning for each of actions in the city plan framed?	Micro-level planning of 13 hotspots is done action taken is shown in Table-IV and Graph -I & II showing reduction in 2019 as compare to 2018
10	Implementation status of city plans in %	
11	Status of Emergency Response System developed including GRAP	Yes (GRAP is enforced)
12	Public Grievance Redressal Portal status	Only 1 complaint is pending on SAMEER
13	Progress in line with the timelines mentioned in the approved plan	
14	Constitution of District level Committee covering each Non-Attainment city	Yes District Environment Plan prepared

Table 1: Status of Monitoring Station

Name of the State	City Name (with population)	CAAQMS		Manual Stations		Remark
		Existing Stations	Required Stations	Existing Stations	Required Stations	
Delhi	Delhi	38	0	0	0	CPCB, DPCC and IMD Monitors Ambient Air Quality in Delhi
Total		38	0	0	0	

Table 2: Status of Source Apportionment (SA)/Emission Inventory (EI)

Name of the State	City Name	Status of SA/EI	Study conducted by	Year	Expected time for completion of the study	Remark
Delhi	Delhi	Completed	IIT Kanpur	2016	NA	
	Delhi	In progress	Washington University	2019-2020	By June 2020	
	Delhi	Emission Inventory	IITM Pune	2018	NA	

Table 3: Status of Micro-level planning of city action plan

City Name	Source	Action Point	Micro-level planning	Time Target	Implementation agencies	Target Reduction
Delhi	13 Hotspots were identified and Action Plan were Prepared				Local DC of the MCD's is the Nodal officer	Graph- I & II

Table 4: Format for progress of implementation of action plan

S.No	Action Point	Unit of Measurement of Progress	Implementation status		Action Completion Date as per city plan	Deviation from targeted timelines, if any	Expected date of completion	Total Cost	Remarks
			% Completed	Details					
Implementation period : Immediate action – 6 months									
Implementation period : 01 to 03 years									
Implementation period : 03 to 05 years									
Implementation period Above 05 years									

*The highlighted portions will be as per the approved city action plans.

- Date of direction for ground implementation of action plan (Zero Date)

List of Sites for Rejuvenation of Water Bodies as per Action Plan of DJB

Sr. No.	Name of site as per DPR	G. No.	Land ownership	Expected Date of completion
PHASE-I				
1	Baoli	540	ASI	28-02-2020
2	BurariIII	991	BDO	
3	JaffarpurKalan 1	668	BDO	
4	JaffarpurKalan 2	669	BDO	
5	NangloiJat 2	896	North DMC/ BDO	
6	NeelaHauz	507	DDA	
7	Rani Khera	394	DDA	
8	Sanjay Van	508	DDA	
PHASE-II				
9	Daulatpur	620	BDO	22-02-2020
10	DhoolSiras	636	DDA	
11	Ibrahimpur	161	BDO	
12	Karala	325	BDO	
13	Neelwal	900	BDO	
14	TikriKalan	911	BDO	
PHASE-III				
15	Chandan holla	448	BDO	15-02-2020
16	Chawala	611	BDO	
17	GomanHera	647	BDO	
18	Hiranki	155	BDO	
19	Siraspur	240	DDA	
20	HiranKudna	875	BDO	
PHASE-IV				
21	Punjab Khor	387	BDO	15-03-2020
22	Burari	988	BDO	
23	DeraMandi	455	BDO	
24	Mungeshpur	199	BDO	
25	NangalThakran	206	BDO	
26	Dichaun Kalan-1	641	BDO	
PHASE-V				
27	Rasulpur	398	BDO	31-03-2020
28	Bindapur	604	DDA	
29	Dichaun Kalan-2	640	BDO	
30	TikriKalan	913	BDO	
PHASE-VI				
31	JHATIKRA	684	BDO	30-04-2020
32	SARANGPUR	827	BDO	
33	HASTSAL	871	BDO	
34	MUNDKA-1	889	BDO	
35	Nangli Poona	209	BDO	
36	Malikpur	734	BDO	
37	Tikri Kalan-2	915	BDO	
PHASE-VII				
38	Pehaladpur	220	BDO	15-05-2020
39	Bijwasan	592	BDO	
40	Malikpur- 1	735	BDO	
41	TajpurKhurd	837	BDO	
42	Mundka- 2	890	BDO	
43	Chawala - 1	613	BDO	

44	Chawala -2		608	BDO	
PHASE-VIII					
45	MohammadpurMajri		344	BDO	31-05-2020
46	Burari-2		989	BDO	
PHASE-IX					
47	Bakargarh		595	NEERI to still submit DPRS	31-07-2020
48	Babarpur (2)		56		
49	Baoli-IVTughlkabadVillage		541		
50	Chawala		607		
51	Daulat pur		621		
52	DhoolSiras		637		
53	GoylaKhurd		654		
54	Hauz-e-SamshiMehrauli(A)		503		
55	KamruddinNagar		879		
56	Kanjhawla		319		
57	KharKhariJatmal		726		
58	Lad Pur		335		
59	Mohd. PurMaijri		342		
60	Mukandpur		1000		
61	SamaspurKhalsa		826		
62	TikariKalan (g)		916		
PHASE-X					
63	GalibPur		657	NEERI to still submit DPRS	31-08-2020
64	Harsh Vihar		226		
65	Matiala F/02		618		
66	Singhola		234		
PHASE-XI					
67	Gokulpur(a)		66	NEERI to study the site and prepare DPRS	30-09-2020
68	Mustafabad(a)		84		
69	Auchandi(a)		107		
70	Auchandi(c)		109		
71	Bawana(i)		136		
72	Harewali(a)		151		
73	HolambiKalan(a)		157		
74	Katewara		169		
75	Kherakalan(b)		171		
76	Kherakalan(c)		172		
77	Kherakalan(d)		173		
78	Lam Pur(c)		186		
79	Lam Pur(d)		187		
80	Lam Pur(e)		188		
81	Ibrahimpur(B)		162		
82	NangalThakran (c)		205		
83	Mundka(A)		888		
Remaining 72 water bodies will be Trifurcated into three Parts					
1	IARI, PUSA			24	31-03-2021
2	Qualified Consultant			24	
3	On DBO Basis			24	

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost - (Rs. in lacs)	Date of approval by TAC -	Date of A/A & E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
1	Shikarpur	Kh.No. 98	Shikarpur	Boundary wall exist	Wet	Yes	0.6 MLD	0.99 Acre	To be appointed	N/A	262.65 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	50000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
2	Dinpur	1087	Dinpur	Boundary wall exist	Dry	Yes	1 MLD	2.27 Acre	To be appointed	No	523.58 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	75000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
3	Ghummanhera	103	Ghummanhera	Boundary wall not exist.	Wet	Yes	1 MLD	0.74 Acre	To be appointed	No	311.78 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	75000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
4	Daulatpur	22/26	Daulatpur	Boundary wall exist	Dry	Yes	0.50 MLD	0.37 Acre	To be appointed	No	155.88 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	40000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
5	Rangpuri	660	Rangpuri	Boundary wall exist	Dry	Yes	0.50 MLD	0.86 Acre	To be appointed	No	223.72 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	40000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
6	Rangpuri	105	Rangpuri	Boundary wall exist	Dry	Yes	0.60 MLD	0.62 Acre	To be appointed	No	211.44 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	50000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
7	Rajokari	446	Rajokari	Boundary wall exist	Dry	Yes	1 MLD	0.30 Acre	To be appointed	No	250.86 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	75000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
8	Kapashera	664/1	Kapashera	Boundary wall not exist.	Dry	Yes	0.60 MLD	0.30 Acre	To be appointed	No	167.13 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	50000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
9	Bijwasan	168	Bijwasan	Boundary wall exist	Dry	Yes	0.60 MLD	1.24 Acre	To be appointed	No	297.25 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	50000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
10	Bijwasan	17,28,23/24	Bijwasan	Boundary wall exist	Dry	Yes	0.60 MLD	1.04 Acre	To be appointed	No	269.57 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	50000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
11	Rewla Khanpur	81	Rewla Khanpur	Boundary wall exist	Wet	Yes	1 MLD	0.25 Acre	To be appointed	No	243.94 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	75000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost - (Rs. in lacs)	Date of approval by TAC -	Date of A/A & E/S -	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
12	Pindwalan Khurd	31/4	Pindwalan Khurd	Boundary wall exist	Dry	Yes	0.50 MLD	0.29 Acre	To be appointed	No	144.81 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	40000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
13	Paprawat	181	Paprawat	Boundary wall exist	Dry	Yes	1 MLD	0.69 Acre	To be appointed	No	304.85 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	75000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
14	Paprawat	146	Paprawat	Boundary wall exist	Dry	Yes	0.50 MLD	0.22 Acre	To be appointed	No	135.12 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	40000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
15	Khera	79	Khera	Boundary wall exist	Wet	Yes	0.50 MLD	0.22 Acre	To be appointed	No	135.12 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	40000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
16	Kharkhari Nahar	23/27	Kharkhari Nahar	Boundary wall exist	Dry	Yes	0.50 MLD	0.17 Acre	To be appointed	No	128.19 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	40000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
17	Kharkhari Nahar	6/11/2	Kharkhari Nahar	Boundary wall exist	Dry	Yes	1 MLD	0.37 Acre	To be appointed	No	260.55 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	75000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
18	Rewla Khanpur	98	Rewla Khanpur	Boundary wall exist	Wet	Yes	1 MLD	0.62 Acre	To be appointed	No	295.16 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	75000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
19	Salahpur	16/15	Salahpur	Boundary wall exist	Wet	Yes	0.60 MLD	1.07 Acre	M/s C.S.I.R (NEERI)	No	199.93 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	50000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
20	Kanganheri	111	Kanganheri	Boundary wall not exist.	dry	Yes	1 MLD	2.97 Acre	M/s C.S.I.R (NEERI)	No	165.33 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	75000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
21	Daurala	43	Daurala	Boundary wall exist	dry	Yes	0.60 MLD	0.89 Acre	M/s C.S.I.R (NEERI)	No	751.16 lacs (Approved TAC)	20.05.19	A/A & E/S Awaited.	-----	-	30.11.2019	31.12.2019 & 30.12.2020	50000 (Approximately)	Recreation for nearby resident and improve environment	CD-I	Sh. Pradeep Naik, Executive Engineer, (CD-I) & Sh. Anil Sharma Superintending Engineer, (FC-IV)

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost (Rs. in lacs)	Date of approval by TAC -	Date of A/A & E/S	Approved Estimated Cost/ Tendered Cost -	Award ed Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
22	Development of Water body at Aya Nagar	1575	Aya Nagar	The provision has been taken for construction of wet land system for natural treatment of inflow into the pond, Landscaping of the Land area of water body and maintenance of the water body for the period of 5 years.	Dry	No.	0.01MLD	17699Sqm.	Will be appointed on 25.10.2019.	31.01.2020	-	20.05.2019	A/A & E/S Awaited.	370.63	-----	Likely to call on approx 25/03/2020.	25.03.2020 & 24.09.2021	8849 Cum (Approx.)	Chhat Puja, Play Ground area.	CD-V	Sh. Raveendra Kumar, Executive Engineer, (CD-V) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
23	Development of Water body at Jonapur	Kh.No. 194	Jonapur	The provision has been taken for construction of wet land system for natural treatment of inflow into the pond, Landscaping of the Land area of water body and maintenance of the water body for the period of 5 years.	Dry	No.	0.60 MLD	9564 Sqm.	Will be appointed on 25.10.2019.	31.01.2020	258.00	20.05.2019	A/A & E/S Awaited.	-----	-----	Likely to call on approx 25/03/2020.	25.03.2020 & 24.09.2021	4782 Cum (Approx.)	Chhat Puja & Play Ground area.	CD-V	Sh. Raveendra Kumar, Executive Engineer, (CD-V) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
24	Development of Water Body at Rajpur.	Kh.No.38	Rajpur.	The provision has been taken for construction of wet land system for natural treatment of inflow into the pond, Landscaping of the Land area of water body and maintenance of the water body for the period of 5 years.	Dry	No	0.60 MLD.	6569 Sqm.	Will be appointed on 25.10.2019.	31.01.2020	216.54	20.05.2019	A/A & E/S Awaited.	-----	-----	Likely to call on approx 25/03/2020.	25.03.2020 & 24.09.2021	3285 Cum.	Chhat Puja & Play Ground Area.	CD-V	Sh. Raveendra Kumar, Executive Engineer, (CD-V) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
25	Development of Water body at Ghitorni.	Kh.No. 437 (17-19)	Ghitorni	Cleaning of the sewage water flowing in the vicinity of the lake, Ground water recharge from the treated water, Rain water harvesting, Provision also being made for construction of two wall, RR Masonry profile and patra and dry stone pitching.	Wet	-	0.01 MLD	6845 Sqm.	NEERI	AWAITED	329.46	-----	A/A & E/S Awaited.	-----	-----	Likely to call on approx 25/02/2020.	25.03.2020 & 24.09.2021	3422 Cum Approx.	Walking track, Chhat Puja.	CD-V	Sh. Raveendra Kumar, Executive Engineer, (CD-V) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
26	Development of water body in Kh. No. 19/9 at Village Jharoda Kalan in N.G Block	19/9	Jharoda Kalan	-	Wet	Dirty Water	1 MLD	13 Bigha 6 Biswa	RFP yet to be floated	N/A	585.89Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
27	Development of Water Body at Village Kair (Adjacent to Federal Bank) bearing Kh. No. 19/24	19/24	Kair	-	Wet	Dirty Water	1 MLD	12 Bigha 17 Biswa	RFP yet to be floated	N/A	486.21 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost (Rs. in lacs)	Date of approval by TAC-	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost-	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
28	Construction of wetland and system for treatment of waste water using SWAB Technology at water body in Kh. No. 55/13, 14/1, 16, 17 & 18 at village Hastal in Najafgarh Block.	55/13, 14/1, 16, 17 & 18	Hastal	-	Wet	Dirty Water	4 MLD	4 Acres	RFP yet to be floated	N/A	837.30 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
29	Construction of wet land system for treatment of waste water using SWAB technology at Water Body Kh. No. 58 at village Malikupr in N.G. Block.	58	Malikupr	-	Wet	Dirty Water	4 MLD	19 Bigha 1 Biswa	RFP yet to be floated	N/A	837.30 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
30	Development of Water Body Opp. Cremation ground road Kh.No-62/2 at village Kair	62/2	Kair	-	Wet	Dirty Water	1 MLD	0 Bigha 5 Biswa	RFP yet to be floated	N/A	486.21 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
31	Development of Water Body in Village Kair Kh. No- 64/2, 3 (Opp. Veterinary Hospital, Gorewala pond)(21-2).	64/2, 3	Kair	-	Wet	Dirty Water	1 MLD	21 Bigha 2 Biswa	RFP yet to be floated	N/A	486.21 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
32	Development of Water Body in Kh. No. 66 at Village Dariyapur Khurd in N.G. Block.	66	Dariyapur Khurd	-	Wet	Dirty Water	1 MLD	13 Bigha 1 Biswa	RFP yet to be floated	N/A	529.12 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
33	Development of Water Body in Kh. No. 105 at village Ujwa in N.G. Block.	105	Ujwa	-	Wet	Dirty Water	4 MLD	9 Bigha 12 Biswa	RFP yet to be floated	N/A	947.05 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost (Rs. in lacs)	Date of approval by TAC -	Date of A/A & E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
34	Development of Water Body in Kh. No. 113 at village Ujwa in N.G. Block.	113	Ujwa	-	Wet	Dirty Water	1 MLD	9 Bigha	RFP yet to be floated	N/A	469.60Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
35	Development of Water Body at Village Issapur bearing Kh. No. 150 in N.G Block.	150	Issapur	-	Wet	Dirty Water	1 MLD	0 Bigha 15 Biswa	RFP yet to be floated	N/A	486.21 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
36	Dariyapur Khurd	7/16/01	Dariyapur Khurd	Taken up by CSIR NEERI	DRY	N.A	-	-	CSIR NEERI	No	Yet to be received	----	-	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
37	Nangli Sakrawati	52	Nangli Sakrawati	Taken up by CSIR NEERI	DRY	N.A	-	3 Bigha 9 Biswa	CSIR NEERI	No	Yet to be received	----	-	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
38	Development of water body in Kh. No. 53 at Village Khera Dabar in N.G Block.	53	Khera Dabar	-	Wet	Dirty Water	1 MLD	18 Bigha 03 Biswa	RFP yet to be floated	N/A	716.03 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
39	MundellaKalan	78	MundellaKalan	-	DRY	N.A	-	-	CSIR NEERI	No	Yet to be received	----	-	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
40	Development of water body in Kh. No. 97/15/2 at village DichaonKalan in N.G Block.	97/15/2	DichaonKalan	-	Wet	Dirty Water	1 MLD	4 Bigha 8 Biswa	RFP yet to be floated	N/A	333.93 Lacs	20.05.2019	Awaited	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
41	Development of water body in Kh. No. 188 at Village Mitraon in N.G Block	188	Mitraon	-	Wet	Dirty Water	1 MLD	8 Bigha 15 Biswa	RFP yet to be floated	N/A	461.29Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
42	Development of water body in Kh. No. 473 at Village Jaffarpur Kalan in N.G Block.	473	JaffarpurKalan	-	Wet	Dirty Water	1 MLD	6 Bigha 1 Biswa	RFP yet to be floated	N/A	378.23 Lacs	20.05.2019	A/A & E/S Awaited.	-	-	31.12.2019	29.02.2020 & 28.02.2021	-	-	CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost (Rs. in lacs)	Date of approval by TAC-	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
43	Development of water body in Kh. No. 896 at village JaffarpurKalan in N.G Block.	896	JaffarpurKalan		Wet	Dirty Water	1 MLD	7 Bigha 16 Biswa	RFP yet to be floated	N/A	333.93Lacs	20.05.2019	A/A & E/S Awaited.		-	31.12.2019	29.02.2020 & 28.02.2021			CD-XIII	Sh. N.P. Maurya, Executive Engineer, (CD-XIII) & Sh. Anil Sharma Superintending Engineer, (FC-IV)
44	Hamidpur	47/1	Hamidpur	Water body is enclosed by boundary walls from all sides. The site boundary is 1.8 m high.	Wet	Yes	180 KLD	Total area -14,569 Sqm Lake area - 10,433 Sqm	CSIR-NEERI	No (Preliminary report submitted)	368.61 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	---	---	15.12.2019	15.01.2020 & 31.01.2021	65700 m3/year	- Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	CD-VI	Sh. Gagan Gaur, Executive Engineer, (CD-VI) Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
45	Tajpur	39(min)	Tajpur	There is a boundary wall long Access Road 01. This is broken in parts. The site is otherwise open to access from all the sides.	Wet	Yes	500 KLD	Total area - 7451 sqm Lake area - 3376 sqm	CSIR-NEERI	No (Preliminary report submitted)	303.85Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	---	---	15.12.2019	15.01.2020 & 31.01.2021	65700 m3/year	- Cleaning of the sewage water flowing to the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	CD-VI	Sh. Gagan Gaur, Executive Engineer, (CD-VI) Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
46	Bakhtawarpur	109	Bakhtawarpur	Along the access roads to the west and north, the site is enclosed by a wall which segregates it from a nala flowing alongside.	Wet	Yes	418 MLD	Total area - 17397 sqm Lake area -7471 sqm	NEERI	No (Preliminary report submitted)	754.55 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	---	---	15.12.2019	15.01.2020 & 31.01.2021	182500 m3/year	- Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	CD-VI	Sh. Gagan Gaur, Executive Engineer, (CD-VI) Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost - (Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
47	TAJPUR	41Min2	TAJPUR	Boundary raised, pathway developed around water pond.	Wet	Yes	0.623MLD/1.099 MLD	5488.46sq.mtrs	PALLAVI MOHAN ASSOCIATES & DESIGN COLLABORATIVE CONSULTING(J.V)	YES	Rs.384.39 Lacs (Approved TAC)	20.05.2019	384.39 lacs 29.08.2019	370.78 lacs	N.A	30.07.2019 Initially tender was opened on 19.08.2019, but only single tender was received which is rejected by NIT approving authority. Tender recalled and opened on 16.09.2019 and work is under process of award	Award of work:- 15.09.2019 Commissioning :- 30.12.2020 subject to availability of land for dewatering of pond. Revised timeline 31.10.2019 & 15.02.2021	3,28,500m3/year	There is an existing drain 20 m away from pond and water quality test has been conducted and found that water need treatment before disposal in water body. So water is diverted from this existing drain through pipeline and treated in STP and then diverted into pond.	CD-VI	Sh. Gagan Gaur, Executive Engineer, (CD-VI) Sh. T.K. Priyith Rekh, Superintending Engineer, FC-II
48	HIRANKI	56/2	HIRANKI	Boundary exists, pathway developed around water pond, deepening done.	DRY	NO	200 KLD	8647.70sq.mtrs	PALLAVI MOHAN ASSOCIATES & DESIGN COLLABORATIVE CONSULTING(J.V)	YES	Rs.264.47 Lacs (Approved TAC)	20.05.2019	Rs.264.47 lacs 29.08.2019	253.63 lacs	N.A	30.07.2019 Initially tender was opened on 19.08.2019, but only single tender was received which is rejected by NIT approving authority. Tender recalled and opened on 16.09.2019 and work is under process of award	Award of work:- 15.09.2019 Commissioning :- 30.12.2020 Revised timeline 31.10.2019 & 15.02.2021	73000m3/year	There is an existing drain 45 m away from pond and water quality test has been conducted and found that water need treatment before disposal in water body. So water is diverted from this existing drain through pipeline and treated in STP and then diverted into pond.	CD-VI	Sh. Gagan Gaur, Executive Engineer, (CD-VI) Sh. T.K. Priyith Rekh, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost (Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
49	BHAKTAWARPUR	113	BHAKTAWARPUR	Boundary exists, pathway developed around water pond, deepening done.	DRY	NO	200 KLD	8016.10 sqmtrs	PALLAVI MOHAN ASSOCIATES & DESIGN COLLABORATIVE CONSULTING(J.V)	YES	Rs. 264.93 Lacs (Approved TAC)	20.05.2019	Rs. 274.44 lacs 29.08.2019	263.30 lacs	N.A	30.07.2019 Initially tender was opened on 19.08.2019, but only single tender was received which is rejected by NIT approving authority. Tender recalled and opened on 16.09.2019 and work is under process of award	Award of work:- 15.09.2019 Commissioning :- 30.12.2020 Revised timeline 31.10.2019 & 15.02.2021	73000 m3/year	There is an existing drain 45 m away from pond and water quality test has been conducted and found that water need treatment before disposal in water body. So water is diverted from this existing drain through pipeline and treated in STP and then diverted into pond.	CD-VI	Sh. Gagan Gaur, Executive Engineer, (CD-VI) Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
50	HIRANKI	534, 535	HIRANKI	Boundary wall exists, pond fenced by a Grill wall, pathways exist, deepening done.	DRY	NO	200 KLD	7632sq.mtrs	PALLAVI MOHAN ASSOCIATES & DESIGN COLLABORATIVE CONSULTING(J.V)	YES	Rs. 210.41 Lacs (Approved TAC)	20.05.2019	Rs. 219.14 lacs 29.08.2019	209.08 lacs	N.A	30.07.2019 Initially tender was opened on 19.08.2019, but only single tender was received which is rejected by NIT approving authority. Tender recalled and opened on 16.09.2019 and work is under process of award	Award of work:- 15.09.2019 Commissioning :- 30.12.2020 Revised timeline 31.10.2019 & 15.02.2021	73000 m3/year	There is an existing drain 3 m away from pond and water quality test has been conducted and found that water need treatment before disposal in water body. So water is diverted from this existing drain through pipeline and treated in STP and then diverted into pond.	CD-VI	Sh. Gagan Gaur, Executive Engineer, (CD-VI) Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
51	Alipur	64/27	Alipur	Sparse Plantation, Gazebo, Ghats Broken Boundary wall	Dry	No	N/A	6420 SQM	NMP Design Pvt.Ltd	Received	268.00	20.05.2019	Awaited	271.67 Lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 15.11.2019 & 15.02.2021	38520 CUBIC METER		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost (Rs. in lacs)	Date of approval by TAC	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Award ed Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
52	Bankner	43/26	Bankner	Ghats, Sparse plantation	Wet	No	N/A	5265 Sqm	NMP Design Pvt.Ltd	Received	377.00	20.05.2019	Rs. 377 lakh on dated 29.08.2019	377.00 Lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.02.2020 Revised 15.11.2019 & 15.02.2021	31590 CUBIC METERS		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
53	Barwala	87/4	Barwala	Steps, Broken boundary wall	Wet	Yes from the broken edge sewer water enters into the waterbody	N/A	7800 Sqm	NMP Design Pvt.Ltd	Received	657.00	20.05.2019	Rs. 657 lakh on dated 29.08.2019	554.77 Lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 15.11.2019 & 15.02.2021	46800 CUBIC METER		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
54	Daryapur Kalan	107	DaryapurKalan	Ghat	Wet	Yes, inlet carrying waste water from the temple.	N/A	25180 Sqm	NMP Design Pvt.Ltd	Received	605.00	20.05.2019	Rs. 605 lakh on dated 29.08.2019	519.45 Lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 15.11.2019 & 15.02.2021	151080 CUBIC METERS		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
55	Harewali	19/19 Min 20	Harewali	None	Wet	Yes	N/A	4920 Sqm	NMP Design Pvt.Ltd	Received	603.00	20.05.2019	Rs. 603 lakh on dated 29.08.2019	603.00 Lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 15.11.2019 & 15.02.2021	29520 CUBIC METERS		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
56	HolambiKhurd	119	HolambiKhurd	Sparse Plantation	Dry	NO	N/A	11849 Sqm	NMP Design Pvt.Ltd	Received	603.00	20.05.2019	Rs. 664 lakh on dated 29.08.2019	664.00 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 30.11.2019 & 30.04.2021	71084 CUBIC METER		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz-boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost –(Rs. in lacs)	Date of approval by TAC –	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost –	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio – economic benefits	Division	Name of Responsible Officer for Timeline
57	Naya Bans	42/28	Naya Bans	None	Dry	No	N/A	01 Bigha 17 Biswa	NMP Design Pvt.Ltd	Received	94.00	20.05.2019	Received 29.08.2019	Proposal Dropped	-	-	-	1520 CUBIC METER DURING MONSOON		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
58	Sanoth	99	Sanoth	Plantation,	Dry	NO	N/A	15312 SQM	NMP Design Pvt.Ltd	Received	381.00	20.05.2019	Rs. 381.00 lakh on dated 29.08.2019	Rs. 393.00 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 30.11.2019 & 30.04.2021	91872 CUBIC METER		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
59	Singhola	28/26	Singhola	None	Dry	NO	N/A	3657 SQM	NMP Design Pvt.Ltd	Received	326.00	20.05.2019	Awaited	327.36 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 30.11.2019 & 30.04.2021	21942 CUBIC METER		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
60	TikriKhurd	15/9	TikriKhurd	None	Wet	Yes, from the overflow of water from the agricultural fields during monsoon carrying pesticides and insecticides.	N/A	2167 SQM	NMP Design Pvt.Ltd	Received	271.00	20.05.2019	Awaited	204.03 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 30.11.2019 & 30.04.2021	13002 CUBIC METER		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
61	Tikrihurd	30,3/4	Tikrihurd	None	Wet	Yes, from the overflow of water from the agricultural fields during monsoon carrying pesticides and insecticides.	N/A	2760 SQM	NMP Design Pvt.Ltd	Received	273.00	20.05.2019	Awaited	238.13 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 30.11.2019 & 30.04.2021	16560 CUBIC METRS		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II

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ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost -(Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
62	Naya Bans	19/27	Naya Bans	None	Dry	No	N/A	5763sq.mtrs	Pallavi Mohan Associates & Design Collaborative Consulting(J.V)	Received	223.58	20.05.2019	Rs. 239.00 lakh on dated 29.08.2019	223.58 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Retendered called, tender opened on 16.09.2019. Technical bid evaluation under process	15.09.2019 & 15.12.2020 Revised 30.11.2019 & 30.04.2021	36500m3/year		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
63	Nayabans	44/28	Nayabans	None	Dry	No	N/A	4932sq.mtrs	Pallavi Mohan Associates & Design Collaborative Consulting(J.V)	Received	211.47	20.05.2019	Rs. 226.00 lakh on dated 29.08.2019	211.47 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Retendered called, tender opened on 16.09.2019. Technical bid evaluation under process	15.09.2019 & 15.12.2020 Revised 15.10.2019 & 31.03.2021	36500m3/year		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
64	Siraspur	759	Siraspur	BOUNDARY WALL EXISTING, PLANTATION & PATHWAY LAID (BUT IS NOT PERCOLATION FRIENDLY)	Dry	No	N/A	7672.89sq.mtrs	Pallavi Mohan Associates & Design Collaborative Consulting(J.V)	Received	282.00	20.05.2019	Rs. 282.00 lakh on dated 29.08.2019	283.56 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 30.11.2019 & 30.04.2021	73000m3/year		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
65	Tikri Khurd	30/1	Tikri Khurd	None	Dry	No	N/A	4072.41sq.mtrs	Pallavi Mohan Associates & Design Collaborative Consulting(J.V)	Received	251.00	20.05.2019	Awaited	182.63 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Revised 15.10.2019	15.09.2019 & 15.12.2020 Revised 15.11.2019 & 30.04.2021	73000m3/year		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
66	Khera Kalan	133	Khera Kalan	Boundary wall built, pathway laid (but not percolation friendly) plantation partially done.	Wet	Yes	Not Assessed, as does not have a regular discharge, only overflow of Agriculture fields diverted to water body intermittently.	22905.81sq.mtrs	Pallavi Mohan Associates & Design Collaborative Consulting(J.V)	Received	468.23	20.05.2019	Awaited	468.23 lakh	Tender to be called in anticipation of A/A & E/S.	30.07.2019 Retendered called, tender opened on 16.09.2019. Technical bid evaluation under process	15.09.2019 & 15.12.2020 Revised 15.10.2019 & 31.03.2021	1,27,750m3/year		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost - (Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S -	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
67	Khera Khurd	Kh. No. 237	Khera Khurd	On three sides of the site namely north east and south, the site is enclosed with a brick wall of 1.2 m high. There is no boundary wall on the eastern edge abutting the nala.	Wet	Yes	180 KLD	Total area - 20120 Sqm Lake area - 12279 Sqm	NEERI-CSIR	No (Preliminary report submitted)	155 Lacs	-	Awaited	-	-	15.12.2019	15.01.2020 & 15.01.2021	55.25	- Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
68	Holambi Kalan	Kh. No. 117, 118	Holambi Kalan	The boundary of the site is missing in many parts and it's difficult to understand from site conditions, the actual extent of site.	Wet	Yes	240 KLD	Total area - 15220 sqm, Lake area - 8000 sqm	NEERI-CSIR	No (Preliminary report submitted)	343.40 Lacs	-	Awaited	-	-	15.12.2019	15.01.2020 & 15.01.2021	-	- Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
69	Khera Khurd	Kh. No. 268 & 63/4/50/25/2	Khera Khurd	On three sides of the site namely north west and south, the site is enclosed with a brick wall of 0.75 m high. On the eastern side there is no site boundary.	dry	Yes	The total flow from all inlets around the proposed lake is unknown currently as the lake was found in dry condition. The treatment system being proposed will be either Phytotid STP (wastewater to be intercepted from nearby sewer line)	Total area - 9145 sqm, Lake area - 3895 sqm	NEERI-CSIR	No (preliminary report submitted)	190 Lacs	-	Awaited	-	-	15.12.2019	15.01.2020 & 15.01.2021	-		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
70	Barwala	Kh. No. 87/6	Barwala	Site is enclosed on three sides with boundary walls of different sizes and materials. At the south eastern side, there are parts where boundary wall could not be located.	Wet	Yes	NA	Total area - 16863 Sqm, Lake area - 13151 Sqm	NEERI-CSIR	No (Preliminary report submitted)	295.52 Lacs	20.05.2019 ib oridata basis	Awaited	-	-	15.12.2019	15.01.2020 & 15.01.2021	-		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
71	DSIIDC	-	Sanoth	No any work executed so far.	Dry	Treated waste water from Ghoga Wet Land	1 MLD	7515.24 Sqm.	No	N/A	342.43 lakh	Approved on 20.05.2019	Awaited	342.43 lakh	Tender to be called 15.10.2019	30.09.2019 Revised	30.10.2019 & 14.08.2020	-		CD-VII	Sh. Somnath Kashyap EE, CD-VII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost -(Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
72	Mungeshpur	22/34	Mungeshpur	Boundary wall being constructed	Dry	No	150 KLD	Total area - 8481 Sqm Lake area - 8289 Sqm	CSIR-NEERI	Received	271.90 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	37.3	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
73	Sultanpur Dabas	96/1/1	Sultanpur Dabas	Fence/boundary wall available - 24-25 native species of trees present at the site	Wet	Yes	400 KLD	Total area - 28,950 sqm Lake area - 20,550 sqm	CSIR-NEERI	Received	512.30 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	92.47	Cleaning of the sewage water flowing to the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
74	Mohammadpur Majri / Majri	13/7/2, 8, 13, 14, 15, 16/1, 16/2, 17/1, 17/2, 18	Mohammadpur Majri / Majri	The fencing / boundary wall around the water body is under construction	Wet	Yes	600 MLD	Total area - 27,090 sqm Lake area - 20,750 sqm	NEERI	No	257.50 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	93.37	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
75	Nithari	23/5, 24/1	Nithari	The western, southern and part-eastern edges of the water body are enclosed by two different boundary conditions	Wet	Yes	500 KLD	Total area - 9996.81 Sqm Lake area - 9654.81 Sqm	CSIR-NEERI	No	241.90 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	43.44	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
76	GHEWARA-A	223, 223/1	GHEWARA-A	There is no fencing around the water body. Only recently one small stretch of boundary wall as shown in fig - 3 was erected to stop the overflow coming into the village area.	Wet	Yes	600 KLD	Total area - 14,985 sqm Lake area - 14,288 Sqm	NEERI	No	257.84 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	64.3	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost (Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Award ed Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
77	GHEWRA- B	264	GHEWRA- B	There are no boundary walls along the site. The backs of adjacent houses define the boundary.	Wet	Yes	700 KLD	Total area - 9996.81 sqm Lake area - 9654.81 Sqm	NEERI	No	205.96 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	43.44	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD- VIII and Sh. T.K. Prijith Rekh, Superintending Engineer, FC- II
78	LADPUR C	72/2/1, 78/23/1	LADPUR C	There are no boundary walls at present.	Wet	Yes	700 KLD	Total area - 6275 sqm Lake area - 6000 Sqm	NEERI	No	186.14 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	27	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD- VIII and Sh. T.K. Prijith Rekh, Superintending Engineer, FC- II
79	RASULPUR	33	RASULPUR	The site boundary along the pathways is 1.8 m high. The boundary wall is made up of three different materials namely; Stone rubble masonry, brick wall and prefab concrete railings. The boundary is damaged in some parts. The water body is covered on three side by the boundary wall and open from the east.	Wet	Yes	360 KLD	Total area - 5,225 sqm Lake area - 3,040 Sqm	NEERI	No	162.13 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	13.68	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD- VIII and Sh. T.K. Prijith Rekh, Superintending Engineer, FC- II
80	KARALA -B	267/1	KARALA	There is no fencing / boundary wall around the water body.	Wet	Yes	500 KLD	Total area - 13,250 sqm Lake area - 11980 sqm	NEERI	No	279.67 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	53.91	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD- VIII and Sh. T.K. Prijith Rekh, Superintending Engineer, FC- II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost -(Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
81	POOTH KHURD	157	POOTH KHURD	The boundary wall is made up of three different materials namely; Stone rubble masonry, brick wall and prefab concrete railings. The boundary is damaged in some parts.	Wet	Yes	500 KLD	Total area - 24,185 sqm Lake area - 23,050 sqm	NEERI	No	738.00 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	103.725	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
82	NIZAMPUR Rasidpur	505	NIZAMPUR Rasidpur	The boundary wall is made up of three different materials namely; Stone rubble masonry, brick wall and prefab concrete railings. The boundary is damaged in some parts. The site is covered on all sides by the boundary wall.	Wet	Yes	418 KLD	Total area - 4250 sqm Lake area - 2410 sqm	NEERI	Received	225.81 Lacs (estimated on pro rata basis)	Approved on 20.05.19 (pro rata basis)	Yet to be received	-	-	15.12.2019	15.01.2020 & 15.01.2021	10.85	Cleaning of the sewage water flowing in the vicinity of the lake - Ground water recharge from the treated water - Rain water harvesting - Recreational area for the local people - Management of the urban heat island problem	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
83	Auchandi /Ochandi	85	Auchandi /Ochandi	Boundary wall exists. Developed, covered with water plants mostly	Wet	No direct discharge into Lake Nearby drain Flow - 1.17MLD	0.65 MLD	Total area - 7,937.0sq.m Lake area - 5920.2 sq.m	Technogreen Environmental Solutions	Received	786.08Lacs	20.05.19	Yet to be received	701.27	-	31.08.2019 Tender has been called and tender opened on 26.09.2019 and technical bid evaluation is under process	30.09.2019 & 30.09.2020	19.34	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II
84	Bawana	203	Bawana	Boundary wall exists. Underdeveloped, dry, partly encroached, surrounded by residential area	Dry	No direct discharge into Lake Nearby drain Flow - 46.8MLD	0.45	Total area - 5,761.23sq.m Lake area - 3,914.5sq.m	Technogreen Environmental Solutions	Received	1245.38Lacs	20.05.19	Yet to be received	-	-	31.08.2019 Some discrepancies observed in DPR based on site conditions. PMC was directed to revise the DPR. The revised timeline for call of tender is 31.10.2019	31.10.2019 & 31.10.2020	9.88	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ highabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost - (Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
85	Bawana	74/18/23	Bawana	Boundary wall does not exist Non - developed	Wet	No direct discharge into Lake Nearby drain Flow - 46.8 MLD	0.4	Total area - 7,739.0sq.m Lake area - 3,461.8sq.m	Technogree n Environme ntal Solutions	Received	677.63Lacs	20.05.19	Yet to be received	-	-	31.08.2019 Some discrepancies observed in DPR based on site conditions. PMC was directed to revised the DPR. The revised timeline for call of tender is 31.10.2019	31.10.2019 & 31.10.2020	8.91	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD- VIII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC- II
86	Budhanpur Majra	36/3, 36/7, 8	Budhanpur Majra	Boundary wall exists Developed Clean; however algal growth is observed at boundary	Wet	No direct discharge into Lake Nearby drain Flow - 15.26MLD	0.55	Total area - 10,625.0sq.m Lake area - 1,244.7sq.m	Technogree n Environme ntal Solutions	Received	783.01Lacs	20.05.19	Yet to be received	457.22	-	31.08.2019 Tender has been called and tender opened on 26.09.2019 and technical bid evaluation is under process	30.09.2019 & 30.09.2020	40.81	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD- VIII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC- II
87	Budhanpur Majra	13/2, 10/2, 13/20	Budhanpur Majra	Boundary wall does not exist Underdeveloped	Dry	No direct discharge into Lake Nearby drain Flow - 15.26	0.15	Total area - 2,346.23sq.m Lake area - 1,244.7sq.m	Technogree n Environme ntal Solutions	Received	354.07 Lacs	20.05.19	Yet to be received	359.87	-	31.08.2019 Tender has been called and tender opened on 26.09.2019 and technical bid evaluation is under process	30.09.2019 & 30.09.2020	14.32	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD- VIII and Sh. T.K. Priyith Rekha, Superintending Engineer, FC- II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz-boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost -(Rs. in lacs)	Date of approval by TAC-	Date of A/A&E/S-	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
88	Bawana	108/25	Bawana	Boundary wall exists Lake cleaning required	Partially wet	No direct discharge into Lake Nearby drain Flow - 1.25MLD	0.15	Total area - 3,782.0sq.m Lake area - 1,023.9sq.m	Technogreen Environmental Solutions	Received	321.63 Lacs	20.05.19	Yet to be received	216.58	-	31.08.2019 Tender has been called and tender opened on 26.09.2019 and technical bid evaluation is under process	30.09.2019 & 30.09.2020	4.42	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
89	Nangal Thakran	87	Nangal Thakran	Boundary wall exists Developed, Algal growth near boundary	Wet	No direct discharge into Lake Nearby drain Flow - 1.64MLD	0.5	Total area - 7,360.59 Lake area - 4,414.0sq.m	Technogreen Environmental Solutions	Received	665.19	20.05.19	Yet to be received	486.4	-	31.08.2019 Tender has been called and tender opened on 26.09.2019 and technical bid evaluation is under process	30.09.2019 & 30.09.2020	29.25	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
90	Rani Khera	89/90	Rani Khera	Boundary wall exist Work completed. Given to DDA, water body should be cleaned	Wet	No direct discharge into Lake Nearby drain Flow - 0.25MLD	0.35	Total area - 3,458.0sq.m Lake area - 2,897.0sq.m	Technogreen Environmental Solutions	Received	454.64	20.05.19	Yet to be received	760.5	-	31.08.2019 Some discrepancies observed in DPR based on site conditions. PMC was directed to revised the DPR. The revised timeline for call of tender is 31.10.2019	30.09.2019 & 30.09.2020	26.34	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&C DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz-boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost -(Rs. in lacs)	Date of approval by TAC -	Date of A/A&E/S	Approved Estimated Cost/ Tendered Cost -	Awarded Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio - economic benefits	Division	Name of Responsible Officer for Timeline
91	Sawada	229	Sawada	No Boundary wall Partially Developed, cleaning required	Wet	No direct discharge into Lake Nearby drain Flow - 32.20	0.85	Total area - 13,564.0sq.m Lake area - 12,323.0sq.m	Technogreen Environmental Solutions	Received	1245.38 Lacs	20.05.19	Yet to be received	903.16	-	31.08.2019 Tender has been called and tender opened on 26.09.2019 and technical bid evaluation is under process	30.09.2019 & 30.09.2020	54.65	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
92	Salahpur Majra	20/12, 13/14	Salahpur Majra	Boundary wall exist Developed (constructed)	Wet	No direct discharge into Lake Nearby drain Flow - 0.53	0.4	Total area - 27,209.0sq.m Lake area - 10,357.0sq.m	Technogreen Environmental Solutions	Received	5090.10Lacs	20.05.19	Yet to be received	579.01	-	31.08.2019 Tender has been called and tender opened on 26.09.2019 and technical bid evaluation is under process	30.09.2019 & 30.09.2020	47.75	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
93	Rani Khara	74/2	Rani Khara	Boundary wall exist Developed	Wet	No direct discharge into Lake Nearby drain Flow - 8.24MLD	0.85	Total area - 15,063.0sq.m Lake area - 7,769.5sq.m	Technogreen Environmental Solutions	Received	994.23 Lacs	20.05.19	Yet to be received	-	-	31.08.2019 Tender has been called and tender opened on 26.09.2019 and technical bid evaluation is under process	30.09.2019 & 30.09.2020 Revised 31.10.2019 & 31.10.2020	35.97	Ground water recharge + rain water harvesting prevention of Pollution of downstream drains followed by rivers Saving the area by water logging Development of Recreational facilities	VIII	Sh. J. Narender Sagar, EE, CD-VIII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II
94	HIRAN KUDNA	564	West Delhi/ HiranKudna	Deepening, Walking Track, Boundary wall, Side Slope	Wet	Yes	0.10 MLD	14569sqm Total(10433 Sqm Water Body)	NEERI	No	Shall be worked out based on final report	31.12.2019	01.03.2020	N.A	N.A	15.12.2019 Revised 01.04.2020	01.05.2020 & 01.02.2021 Revised 01.05.2020 & 15.01.2021	20886 Cum		CD-XII	Sh. Puneet Dudgeja, EE, CD-XII and Sh. T.K. Prijith Rekha, Superintending Engineer, FC-II

LIST OF 96 WATER BODIES TO BE REJUVENATED BY I&FC DEPARTMENT

ANNEXURE-IX(B)

S. No.	Name of Water Body	Kh. No.	Village	Action taken so far (Viz- boundary wall, ghats, plantation, others)	Present Status (dry or wet)	Whether receiving dirty water	Discharge being received in MLD	Demarcated Area (In Sqm/ bighabishwa/Acre)	Name of Consultant	DPR received or not	Estimated Cost/ Tentative cost –(Rs. in lacs)	Date of approval by TAC –	Date of A/A&E/S-	Approved Estimated Cost/ Tendered Cost –	Award ed Cost	Time Line for call of Tender	Time Line for Award of Work & Commissioning	Assessed Ground water recharge potential (in Cum)	Other socio – economic benefits	Division	Name of Responsible Officer for Timeline
95	BAPROLA	6/17/2, 6/18/2, 6/24/2, 6/24/3	West Delhi/ BAPROLA	Boundary Wall	Wet	No	N.A-Rain Fed	8990sqm Total(7140 Sqm Water Body)	NEERI	No	Shall be worked out based on final report	31.12.2019	01.03.202 0	N.A	N.A	15.12.2019 Revised 01.04.2020	01.05.2020 & 01.02.2021 Revised 01.05.2020 & 15.01.2021	14280 Cum		CD-XII	Sh. Puneet Dudeja, EE, CD-XII and Sh. T.K. Priyith Rekh, Superintending Engineer, FC- II
96	BAKKARWALA	91/2	West Delhi/ BAKKAR WALA	Boundary Wall	Wet	No	N.A-Rain Fed	15300 sqm(Total) (10325 Sqm water body)	NEERI	No	Shall be worked out based on final report	31.12.2019	01.03.202 0	N.A	N.A	15.12.2019 Revised 01.04.2020	01.05.2020 & 01.02.2021 Revised 01.05.2020 & 15.01.2021	51625 Cum		CD-XII	Sh. Puneet Dudeja, EE, CD-XII and Sh. T.K. Priyith Rekh, Superintending Engineer, FC- II