Action Plan for Control of Pollution in River Ghaggar

Chandigarh Pollution Control Committee

I N D E X

	(v) Maintaining of E- Flows for having ecological balance in the river system.	
	(vi) Awareness	
	Effective use of groundwater resources for agriculture purpose.	
	Health status and organising health camps.	
(vii)	Monitoring of executing the actions plans.	

1. Back Ground.

Hon'ble National Green Tribunal, New Delhi in the matter original application No. 138 of 2016 and 139 of 2016 has passed an order dated 7th August, 2018 vide which it is informed that proceedings in the matter O.A. No. 138 of 2016 and O.A. No. 139 of 2016 titled Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu case) were initiated before the Tribunal on a reference received from the National Human Right Commission (NHRC). The NHRC took Suo-Motu action on the basis of a news item appearing in The Tribune, dated 12.05.2014 under the caption **"Stench Grips Mansa's Sacred Ghaggar River"** to the effect that the river Ghaggar had turned into a polluted water body on account of discharge of effluents – industrial as well as municipal.

In pursuant to the order of Tribunal dated 09.12.2016, a joint inspection has been carried out by the representatives of the Central Pollution Control Board, Punjab State Pollution Control Board, Haryana State Pollution Control Board, Himachal Pradesh State Pollution Control Board. Officials of Union Territory, Chandigarh also joined the said inspection team. Further, as per report, submitted by the concerned Pollution Control Boards to the NHRC as well as Minutes of the meetings on various dates in which the respective States participated. The joint analysis report of the joint monitoring of river Ghaggar samples has also been filed. The findings of the joint inspection report are that values of various parameters such as BOD, TSS, Faecal Coliform, Lead and Iron were beyond permissible limits at most of the locations in Himachal Pradesh, Haryana, Punjab and Chandigarh.

In view of above disappointing scenario, the Chief Secretaries of the States of Himachal Pradesh, Haryana, Punjab and also the Administrator of U.T., Chandigarh have been directed to constitute Special Task Force (STFs) comprising of District Magistrate, Superintendent of Police, Regional Officer of the State Pollution Control Board in concerned District and one person to be nominated by the District Judge in every District in his capacity of Head of the District Legal Services Authority. Such STF may identify persons responsible for violation of law so that action can be taken. At the State Level, the STF will comprise of the Chief Secretary, Secretary Environment, Secretary of Urban Development and Secretary of Local Body. The District Level Special Task Force will submit a monthly action taken report to the State Level Task

Force and State Level Special Task Force will furnish 3 monthly report or the action taken to the Central Pollution Control Board.

The mandate of the above task force has also been given in the order of Hon'ble NGT. The STF at the district level has the mandate of indentifying the persons responsible for the violations of the law so that the action can be taken. The State level STF has to furnish three monthly report to the CPCB which will be based on the monthly report submitted by District Level STF.

An Executing Committee was also constituted by Hon'ble NGT (as per para 8 of the order) under the Chairmanship of Justice Pritam Pal, Former Judge, Punjab and Haryana High Court.

2. About River Ghaggar and Its Tributaries, activity in the catchment area of river Ghaggar and its tributaries.

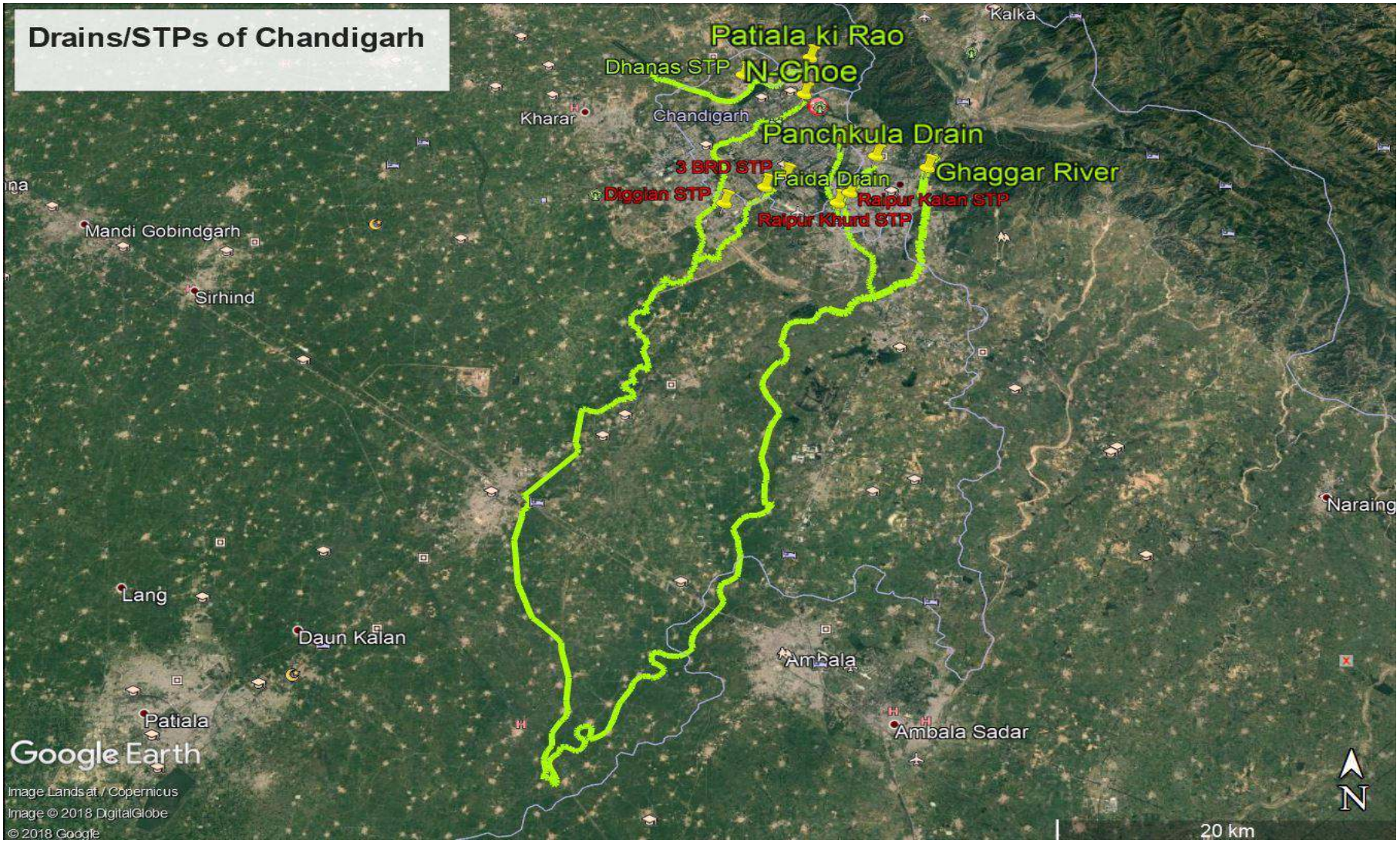
Ghaggar River, Ghaggar also spelled Ghagghar, river, northern India. The Ghaggar rises in the Siwalik (Shiwalik) Range, in northwestern Himachal Pradesh state and flows about 200 miles (320 km) southwest through Haryana state, where it receives the Saraswati River. It eventually dries up in the Great Indian (Thar) Desert. Just southwest of Sirsa it feeds two irrigation canals that extend into Rajasthan state. Its seasonal flow is dependent on monsoonal (seasonal) rainfall. The main tributaries of the Ghaggar are the Kaushalya river, Markanda, Sarsuti, Tangri and Chautang. The river flows at a distance of 7.0 K.M. from the nearest point in the U.T. of Chandigarh

Ghaggar River and Other drains is given in **Figure 1 & Figure 2.**

Figure 1


Patiala ki Rao
Nayagaon
Kansal
Khara
Sector 40B
Chandigarh
Chandigarh
Sukhna Choe
Sukheri
Panchkula Drain
Ghaggar River
Industrial Area Phase I
Panchkula
Raipur Kalan STP
Raipur Khurd STP
Industrial Area
Chuhar Majra
Zirakpur
Khangesra
Manakpur
Google Earth

Figure 2


Drains/STPs of Chandigarh
Patiala ki Rao
Dhanas STP
N-Choe
Kharar
Chandigarh
Panchkula Drain
3 BRD STP
Faida Drain
Ghaggar River
Diggian STP
Raipur Kalan STP
Raipur Khurd STP
Kalka
Mandi Gobindgarh
Sirhind
Naraing
Lang
Daun Kalan
Ambala
Patiala
Ambala Sadar
Google Earth
Image Landsat / Copernicus
Image © 2018 DigitalGlobe
© 2018 Google
20 km
N

3. Water quality goals as per the existing provisions or guidelines/specifications of CPCB.

As per provisions water quality should meet with the standards prescribed in scheduled VI of Environment (Protection) Act, 1986 for discharge of effluents in inland surface water. As Sukhna Choe and N-Choe are joining River Ghaggar hence, before meeting with river Ghaggar both of the choes should meet with the prescribed standards as mentioned in Schedule VI of Environment (Protection) Act, 1986.

4. Sources of Pollution of River Ghaggar and Its tributaries within the jurisdiction of the respective State/UT.

In the catchment area of river Ghaggar, the waste water is generated mainly by the two sources:

1. **Domestic**
2. **Industrial**

4.1 Domestic

Being a planned city Chandigarh is completely covered with sewerage network. Details w.r.t. water consumption and discharge are as given below :

Municipal Population	10.54 Lacs (as per 2011 census)
Volume of Domestic & Industrial Waste Water Generated	54 MGD (Approx.)
Treated waste water	48.85 MGD
No. of STPs	5
Capacity of Each STP	11 MGD – 3 BRD 5 MGD – Raipur Kalan 30 MGD – Diggian 1.25 MGD – Raipur Khurd 1.6 MGD – Dhanas **Total : 48.85 MGD**
Mode of Disposal	Natural Choe for all except Diggian. Diggian STP effluent goes to Irrigation Channel

River Ghaggar is passing at around 7 Kms. distance from Chandigarh and there are two main sources of discharge from Chandigarh which contribute to River Ghaggar.

1) Sukhna Choe
2) N-Choe.

In these choes two types of waste water are being discharged.

1) Treated waste water from the STPs.
2) Direct discharge of untreated waste water

4.2 Industrial

Ghaggar river is flowing around 7.0 K.M. far from Chandigarh and in Chandigarh **no unit is allowed to run without consent and without ETP** (if unit is generating waste water). After treatment in their captive ETP, treated waste water is released into sewer line which further goes to Terminal Sewage Treatment Plant and gets further treatment. Monitoring of both drains (i.e. Sukhna Choe and N-Choe) which mixes into River Ghaggar, shows that **no industrial effluent is being discharged without treatment**.

Being a Planned city Chandigarh has notified Industrial Area and most of the industries are either in Industrial Area Phase-I or Industrial Area Phase-II except Hotel/Restaurant/Hospitals etc which are in sectors.

Chandigarh Pollution Control Committee grants consent to operate to only those industries which are having proper effluent treatment plant or air pollution control device (whichever is applicable). Hence, all the industries operational in Chandigarh are having Effluent Treatment Plants or Air Pollution Control Devices.

Treated effluent by industries is being released into the public sewer system which further goes to Terminal Sewage Treatment Plant and gets further treatment.

Chandigarh is neither having 17 category of highly polluting industry nor there is any grossly polluting industry. There are total 3336 no. of industries operational in Chandigarh which comprise of 192 Red, 575 Orange, 577 Green and 1625 are White category industries. Red category industries includes 98 Nos. of very small scale

electroplating unit, 5 nos. of sewage treatment plants, 48 nos. of pickling plants, 1 no. Slaughter house (abattoir) run by Municipal Corporation Chandigarh, 11 nos. of microbreweries and 4 nos. of zinc processing units.

Orange category industries include majority of small scale Hotel and Restaurant which are 229 in nos. 10 nos. bottling plants, around 44 nos. of hospitals, 7 nos. of wire drawing unit without pickling, 91 nos. of service stations

Following is the table highlighting the details of industries in Chandigarh:-

Red		**192**
Orange		**575**
Green		**577**
White		**1625**
	Electroplating	98
	Foundries	33
	Hotel & Restaurants	229
	Sewage Treatment Plants	05
	Potable Alcohol's bottling plants	10
	Automobile Service Stations	91
	Hospitals	44
	Wire Drawing with Pickling	48
	Wire Drawing without Pickling	07
	Slaughter House (Abattoir)	01
	Zinc processing units	04
	Microbreweries	11

Waste Management:

Solid Waste Management:

Municipal Corporation, Chandigarh is collecting daily around 450 Tonnes of municipal waste from all over Chandigarh and hand over the waste to the Processing Plant at Dadu majra which has RDF plant of 500 Tonnes/day, Compost Plant of 300 Tonnes/day and Bio-Methanation Plant of 5 Tonnes/day.

Municipal solid waste is being collected from house to house through cycle carts and transferred to Sahaj Safai Kendra (SSK)/Municipal Bin and it is transported to Processing Plant. Waste from mandi and hotels goes directly to Dumping Ground. In the Processing Plant (which is operated by Jai Parkash Associates Ltd.) municipal waste is processed and converted into RDF (Refused Derived Fuel) which is further

used in kilns and other furnaces as fuel additive. Old Dumping site has been capped and covered and sanitary landfill site has been developed under the CPCB project in which around 50 % funding was done by CPCB. Out of 45 Acres total area of Dumping Ground, 25 Acres has been reclaimed by capping of 16.72 Acres and 8.28 Acres sanitary land fill site has been developed in a scientific manner. Daily around 450 Tonnes municipal waste is generated in Chandigarh and transported to Processing Plant or Dumping Ground.

Construction and Demolition Waste:

The Municipal Corporation Chandigarh has awarded contact for the management of Construction and Demolition waste and the Tile manufacturing plant will be operational by March, 2019.

Bio-Medical Waste Management:

Chandigarh is having total 788 Health Care Facilities (HCFs) which are generating biomedical waste. These 788 HCFs include 49 bedded hospitals, 583 small clinics/dispensaries, 13 veterinary institutions, 3 animals houses, 4 blood banks, 118 pathological laboratories, 4 research institutes and 14 ayush hospitals/dispensaries. Total bed strength in Chandigarh is 4413. On an average 2503 kgs of biomedical waste is being generated in Chandigarh on daily basis and the same is being treated daily.

There is only one Bio-medical Waste Treatment Facility operational in Chandigarh which is collecting bio-medical waste from all Private health care facilities including Hospitals, Nursing Homes, Clinics etc. and disposing off the waste after proper treatment. Presently two incinerators are operational which are installed at PGIMER, Sector 12 and GMSH, Sector 16 with capacities of 200 kg/hr and 100 kg/hr respectively. These two Institutes treat their bio-medical waste in their own facility.

d) Management of Hazardous Waste

As very less amount (2847 MT in F.Y. 2016-2017) of hazardous waste is generated in Chandigarh, therefore the waste is transported and disposed off in the facilities available in the nearby states.

For disposal of landfillable waste (70 MT), Chandigarh Pollution Control Committee has made formal agreement with Punjab Pollution Control Board for utilizing their TSDF facility namely M/s Ramky Enviro Engineers Ltd. (Unit: Punjab Waste Management Project). CPCC has authorised M/s Ramky Enviro Engineer Ltd. for collection and transportation of landfillable hazardous waste from various units located in Chandigarh to their TSDF located at Village Nimbua, Derabassi, Punjab.

For disposal of incinerable waste (11.25 MT), CPCC has authorised M/s Bharat Oil and Waste Management Ltd. Sahibabad, Industrial Area, Ghaziabad, U.P. for collection and transportation of incinerable hazardous waste from various units located in Chandigarh.

For disposal of recyclable waste i.e. used oil, spent acid, acid residue (2767 MT), CPCC has authorised the following units located in Punjab, Haryana and UP for collection and transportation of recyclable waste from various units located in Chandigarh to their facilities.

S. No	Name of the Unit	Address	Category
1.	M/s Ramky Enviro Engineers Limited	Opposite Vardhman Chemtech Ltd., Village-Nimbua, PO.-RampursainiaS, Tehsil-Derabassi, District-Mohali, Punjab.	ETP Sludge, Chemical Sludge etc.
2.	Bharat Oil Company (I) Regd.	E-18, Sahibabad Industrial Area, Site-IV, Ghaziabad, Uttar Pradesh.	Used Oil and Incinerable Waste
3.	M/s B.N. Concast (P) Limited	HSIDC Complex, Plot No. 18, Industrial Area, Alipur, Barwala, Panchkula, Haryana	Used Oil
4.	M/s Golden Petro	Plot No. C-45, Industrial Focal Point, Chanalon, District- SAS Nagar, Punjab.	Used Oil
5.	M/s Mahadev Petrochemicals	Plot No. D-116(P), Industrial Focal Point, Mandi Gobindgarh, Distt. Fatehgarh Sahib (Punjab).	Used Oil
6.	M/s BRS Lubricants	D-57, Focal Point, Mandi Gobindgarh, Distt Fatehgarh sahib, Punjab - 147301	Used Oil
7.	M/s J.B.R Technologies (P) Ltd. - II	Opposite Nexo Industries, Kohara Machhiwara Road, Kohara, Ludhiana east, Punjab.	Acid residue
8.	M/s Bhagwati Agro Industries	Tosham Road, VPO. Balawas, Hisar, (Haryana).	Acid residue

e) <u>Management of E-Waste:</u>

All the big I.T. companies are disposing their E-Waste through registered Recyclers and M/s Ramky Enviro Engineers Pvt. Ltd., Opposite Vardhman, Nimbua, Derabassi is collecting e-waste from Chandigarh. As Chandigarh is very small city and cost of land is very high. Hence, there is no dismantler and recycler facility for E-waste in Chandigarh and we are totally dependent upon the facilities situated in other states. There are following three E-waste collection centres of Karo Sambhav in Chandigarh which are authorized by Central Pollution Control Board:-

1. Savex Technologies Pvt. Ltd., SCO No. 364, 2nd Floor, Sector 44-D, Chandigarh
2. Mobile Connect, SCO 2473-2474, 2nd Floor, Sector 22-C, Chandigarh.
3. Supertron Electronics Pvt. Ltd., Plot No. 38-D, Indl. Area, Phase - II, Chandigarh.

5. Actions initiated for ensuring compliance to the Hon'ble National Green Tribunal (NGT), Principal Bench, Delhi Order dated 07.08.2018 in the matter of OA No. 138/2016 (T_{NHRC}) and OA No. 139 of 2016 (T_{NHRC})

Initiatives taken by Chandigarh Administration in pursuance to the Hon'ble National Green Tribunal (NGT) order dated 07.08.2018 are detailed below:-

5.1 As per direction of Hon'ble National Green Tribunal District Level Special Task force and State Level Special Task Force has been constituted vide order no. ED/2018/316 dated 07.09.2018.

Constitution of Task Force is as given below. **(Annexure-I)**

District Level Special Task Force

S.No.	Members	
1	District Magistrate, U. T. Chandigarh	Chairman
2.	Superintendent of Police, Chd. Police	Member

3. **S**	Sh. Amarinder Sharma, Secretary, District Legal Services Authority	Member
4.	SE, PH Division, Engg. Deptt., Chd. Admn.	Member
5.	SE, PH Division, Municipal Corporation	Member
6.	Scientist 'B', CPCC	Member Secretary

State Level Special Task Force

S.No.	Members	
1	Advisor to the Administrator, U. T. Chandigarh	Chairman
2.	Secretary Environment, Chd. Admn.	Member
3.	Secretary, Urban Planning, U. T. Chd.	Member
4.	Secretary, Local Body, U. T. Chd.	Member
5.	Commissioner, Municipal Corporation	Member
6.	Chief Engineer, Chd. Admn.	Member
7.	Member Secretary, CPCC	Member Secretary

5.2 Meeting with concerned officers:

In pursuance to the Hon'ble NGT order dated 07.08.2018 and orders of Executing Committee, Member Secretary, Chandigarh Pollution Control Committee convened a meeting on 12.09.2018 **(Annexure-II)** with the officers of Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration in the office of CPCC to discuss the matter regarding preparation of Action Plan w.r.t. Up-gradation of existing Sewage Treatment Plants & Tapping of untreated waste water into Choes/Drainage and other follow-up actions to be taken for ensuring compliance to Hon'ble NGT Order dated 07.08.2018.

The following points were discussed.

1) Stoppage of sewer discharge point in N-Choe.

2) Stoppage of untreated waste water discharge near Sector 48 (3BRD).
3) Stoppage of waste water discharge points in Sukhna Choe specifically about colony no. 4 & Hallomajra.
4) Stoppage of going of industrial waste water into Sukhna Choe (pump house behind poultry farm)
5) Stoppage of waste water behind Gaushala, Industrial Area, Phase-I, Chandigarh.
6) Stoppage of waste water inside the forest area, Phase-I.
7) Upgradation of existing STPs
8) Construction of new STPs
9) Quantification of complete waste water discharge (Total Load).

5.3 Joint Inspection to check the various outlets where sewage water is charged without treatment into Sukhna choe and N-Choe as directed by Hon'ble National Green Tribunal, New Delhi

As per directions of Hon'ble National Green Tribunal, CPCC and the officers of Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration have done the survey of entire Sukhna Choe and N-Choe on dated 18.09.2018 (**Annexure-III)** and as result of which it was found that there were many places where waste water was being discharge into drain/chow without any treatment. The points are as given below:

Discharge Points in Sukhna Choe

Sr. No.	Point	Status as on September 2018
1	Kishangarh Outlet	There is sewage water discharge from the outlet.
2	Outlet of Village Kishangarh inside Forest Nursery	There is sewage water discharge from the outlet.
3	Outlet of Shastri Nagar	There is sewage water discharge.
4	First outlet of Bapu Dham near bridge on the road connecting IT park with Sector 26, Chandigarh	There is sewage water discharge at first outlet of Bapu Dham near bridge on the road connecting IT Park
5	Second outlet of Bapu Dham Colony (Known as Madrasi Colony)	There is sewage water discharge at second outlet of Bapu Dham colony

6	Outlet from back of Gaushala, Industrial Area, Phase-I, Chd.	There is substantial sewage discharge from back of Gaushala, Industrial Area, Phase-I, Chd.
7	Outlet near CTU workshop Industrial Area, Phase-I, Chd. (Inside Forest Area)	There is sewage discharge at the outlet near CTU workshop.
8	Indl. Area, Phase - I, Colony No. 4.	There is discharge from many outlets from Indl. Area, Phase - I, Colony No. 4.
9	Pump House operated by Municipal Corporation behind Central Poultry Development Organization, Indl. Area, Phase - I, Chandigarh.	In case of Non-operation of pump, waste water directly goes to Sukhna Choe on regular basis.
10	Outlet of Village Hallomajra	There is substantial sewage discharge from the outlet of Village Hallomajra.
11	Village Daria	There is discharge of sewage water from Village Daria

Discharge Points in N-Choe

Sr. No.	Point	Status as on September 2018
1	Leisure valley	02 outlets are discharging waste water
2	Near red cross (Madhya Marg)	01 outlet discharging waste water
3	Sec 23 near B.D Hospital (Neuro Psychiatry)	01 outlet discharging waste water
4	Bal Bhawan side	Very less discharge
5	01 outlet in Beant Memorial	Water logging
6	Sector 52 (starting)	Two outlets discharging Sewage Water
7	Sector 52 (End)	Two outlets discharging Sewage Water
8	One outlet coming from Sec 51	Sewage Water

5.4 CPCC letters to Municipal Corporation, Chandigarh and Engineering Department Chandigarh Administration.

Subsequent to the meeting held with the Officials MCC and Chd., Admn. and after joint inspection, D.O. letter vide No. CPCC/2018/1490 & CPCC/2018/1491 dated 09.10.2018 issued to both the departments to submit the action taken report and action plan for compliance of order of Hon'ble NGT Delhi.

5.5 Meetings of District Level Special Task Force:

District Level Special Task Force has conducted the meeting on 01.10.2018 in which the following decisions were taken.

1. Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration will upgrade the existing STPs/set up new STPs in their respective jurisdiction to meet with the standards directed by CPCB/CPCC and action plan in this regard alongwith timeline will be submitted within 15 days.

2. The officers of Chandigarh Pollution Control Committee (CPCC), Engineering Department Chd. Admn. and Municipal Corporation, Chd. have identified the 10 points where sewerage water is discharged without treatment into Sukhna Choe. Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration will take measures to tap these points to ensure that no untreated waste water release into Sukhna Choe. Status report in this regard will be submitted by the M.C. within 15 days.

3. Prior intimation shall be given by the CPCC to the Police Deptt. for providing police protection to the officers for carrying out inspection and deputing the beat cops with the team.

4. Municipal Corporation, Chandigarh will provide the list of industrial plots who have not taken sewer connection.

5. Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration will make standby arrangement of pumps alongwith the existing pumps at sewage pumping stations and Log Book shall be maintained at each pumping station.

6. Points where waste water is being discharged into N-Choe to be identified in the coming time.

7. CPCC will provide the quality of drains at entry/exit points.
8. MC, Chd. will provide the details of discharge points at Patiala ki rao and provide the action plan for stoppage of the same.

9. MC, Chd. will identify the people who have laid down illegal pipelines and discharging waste water into storm water drainage system/drains and Public Notice shall be given by the CPCC in this regard.

5.4 **2nd meeting of DLSTF**: After that the District Level Special Task Force conducted the 2nd meeting on 11.10.2018 vide which Scientist 'B' CPCC submitted the test report of water quality of all the drains at entry and exit point of Chandigarh and also showing the waste water discharge points at N-Choe. Accordingly the following decision were taken in the meeting.

1. The points through which the waste water is being discharged directly into the N-choe should be closed by the Municipal Corporation, Chandigarh with the support of Police.

2. The format of action paln will be given by CPCC to Municipal Corporaiton, Chandigarh and Engineering Department, Chandigarh Administration and thereafter both the department will be submitted the action plan

5.5 **3rd meeting of DLSTF** Thereafter the third meeting of District Level Special Task Force conducted on 07.12.2018 and accordingly Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration submitted the action taken report of the various outlets from which waste water is being discharged into Sukhna Choe and N-Choe.

STATUS OF UNTREATED WASTE WATER DISCHARGE IN SUKHNA CHOE

Sr. No.	Point	Status as on September 2018	Status as on 07.12.2018	Action taken
1	Kishangarh Outlet	There is sewage water discharge from the outlet.	As a short term measure proposal has been submitted to lift the waste water and connect it with sewerage line	As a short term measure proposal has been submitted to lift the waste water and connect it with sewerage line. Later STP will be installed by Nov. 2022
2	Outlet of Village Kishangarh inside Forest Nursery	There is sewage water discharge from the outlet.	Still sewage is being discharged	-
3	Outlet of Shastri Nagar	There is sewage water discharge.	Sump has already been created	Sewage water has been tapped.
4	First outlet of Bapu Dham near bridge on the road connecting IT park with Sector 26, Chandigarh	There is sewage water discharge at first outlet of Bapu Dham near bridge on the road connecting IT Park	-	Leakage has been plugged

5	Second outlet of Bapu Dham Colony (Known as Madrasi Colony)	There is sewage water discharge at second outlet of Bapu Dham colony	The slum developers have constructed their toilets on the existing CBD. Matter has now been taken up with Estate Office, U.T. Chandigarh for removal of encroachment on the CBD at Bapu Dham Colony, so that flow coming into Choe may be plugged.	All such discharges points have been plugged
6	Outlet from back of Gaushala, Industrial Area, Phase-I, Chd.	There is substantial sewage discharge from back of Gaushala, Industrial Area, Phase-I, Chd.	-	Municipal Corporation Chandigarh has plugged the discharge point
7	Outlet near CTU workshop Industrial Area, Phase-I, Chd. (Inside Forest Area)	There is sewage discharge at the outlet near CTU workshop.	-	CTU has plugged the waste water flow. Now there is no waste water discharge.
8	Indl. Area, Phase - I, Colony No. 4.	There is discharge from many outlets from Indl. Area, Phase - I, Colony No. 4.	-	Waste water has already been tapped and diverted to sewer line.

9	Pump House operated by Municipal Corporation behind Central Poultry Development Organization, Indl. Area, Phase - I, Chandigarh.	In case of Non-operation of pump, waste water directly goes to Sukhna Choe on regular basis.	-	New stand by motor has already been installed and now no waste water is being discharged into Sukhna Choe.
10	Outlet of Village Hallomajra	There is substantial sewage discharge from the outlet of Village Hallomajra.	-	Around 70 % household have already been connected to sewerline. Rest will be connected to sewer line by 31.01.19.
11	Village Daria	There is discharge of sewage water from Village Daria	Excess sewage of unauthorised colony in village Daria has been tapped and put in the sump and the same is being pumped into the sewer line.	Excess sewage of unauthorised colony in village Daria has been tapped and put in the sump and the same is being pumped into the sewer line. Now there is no discharge.

STATUS OF UNTREATED WASTE WATER DISCHARGE IN N- CHOE

Sr. No.	Point	Status as on September 2018	Status as on 07/12/2018 Action taken
1	Leisure valley	02 outlets are discharging waste water	One Outlet has been plugged and there is little discharge from one outlet
2	Near red cross (Madhya	01 outlet discharging	Outlet has been plugged. Now there is

	Marg)	waste water	no waste water discharge.
3	Sec 23 near B.D Hospital (Neuro Psychiatry)	01 outlet discharging waste water	Outlet has been plugged. Now there is no waste water discharge.
4	Bal Bhawan side	Very less discharge	Outlet has been plugged. Now there is no waste water discharge.
5	01 outlet in Beant Memorial	Water logging	No action is taken
6	Sector 52 (starting)	Two outlets discharging Sewage Water	No action is taken
7	Sector 52 (End)	Two outlets discharging Sewage Water	No action is taken
8	One outlet coming from Sec 51	Sewage Water	Already tapped.

The Minutes of Meeting (i.e. 01.10.2018, 11.10.2018 & 07.12.2018) is enclosed at Annexure- IV, V, VI).

5.6 <u>Meeting of State Level Special Task Force:</u>

After submission of the monthly reports by District Level Special Task Force has submitted their monthly reports alongwith action taken and action plan (Reports of October 2018, November 2018 & December, 2018 are enclosed at **Annexure-VII**) to State Level Special Task Force, State Level special Task Force Committee convened the Ist meeting on 19.12.2018 to discuss the issues of discharge of various outlets into Sukhna Choe and N-Choe and also the monthly reports submitted by District Level Special Task Force, which was finally submitted to Central Pollution Control Board.

In the first meeting of State Level Special Task Force, Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration submitted the action taken report.

Action taken to stop the discharge of waste water from various outlets in Sukhna Choe.

Sr. No.	Point	Status as on September 2018	Action Taken
1	Kishangarh Outlet	There is sewage water discharge from the outlet.	As a short term measure proposal has been submitted to lift the waste water and connect it with sewerage line. Later STP will be installed by Nov. 2022
2	Outlet of Village Kishangarh inside Forest Nursery	There is sewage water discharge from the outlet.	-
3	Outlet of Shastri Nagar	There is sewage water discharge.	Sewage water has been tapped.
4	First outlet of Bapu Dham near bridge on the road connecting IT park with Sector 26, Chandigarh	There is sewage water discharge at first outlet of Bapu Dham near bridge on the road connecting IT Park	Leakage has been plugged
5	Second outlet of Bapu Dham Colony (Known as Madrasi Colony)	There is sewage water discharge at second outlet of Bapu Dham colony	All such discharges points have been plugged

6	Outlet from back of Gaushala, Industrial Area, Phase-I, Chd.	There is substantial sewage discharge from back of Gaushala, Industrial Area, Phase-I, Chd.	Municipal Corporation Chandigarh has plugged the discharge point
7	Outlet near CTU workshop Industrial Area, Phase-I, Chd. (Inside Forest Area)	There is sewage discharge at the outlet near CTU workshop.	CTU has plugged the waste water flow. Now there is no waste water discharge.
8	Indl. Area, Phase - I, Colony No. 4.	There is discharge from many outlets from Indl. Area, Phase - I, Colony No. 4.	Waste water has already been tapped and diverted to sewer line.
9	Pump House operated by Municipal Corporation behind Central Poultry Development Organization, Indl. Area, Phase - I, Chandigarh.	In case of Non-operation of pump, waste water directly goes to Sukhna Choe on regular basis.	New stand by motor has already been installed and now no waste water is being discharged into Sukhna Choe.
10	Outlet of Village Hallomajra	There is substantial sewage discharge from the outlet of Village Hallomajra.	Around 70 % household have already been connected to sewerline. Rest will be connected to sewer line by 31.01.19.
11	Village Daria	There is discharge of sewage water from Village Daria	Excess sewage of unauthorised colony in village Daria has been tapped and put in the sump and the same is being pumped into the sewer line. Now there is no discharge.

Action taken to stop the discharge of waste water from various outlets in N-Choe.

Sr. No.	Point	Status as on September 2018	Action Taken
1	Leisure valley	02 outlets are discharging waste water	One Outlet has been plugged and there is little discharge from one outlet
2	Near red cross (Madhya Marg)	01 outlet discharging waste water	Outlet has been plugged. Now there is no waste water discharge.
3	Sec 23 near B.D Hospital (Neuro Psychiatry)	01 outlet discharging waste water	Outlet has been plugged. Now there is no waste water discharge.
4	Bal Bhawan side	Very less discharge	Outlet has been plugged. Now there is no waste water discharge.
5	01 outlet in Beant Memorial	Water logging	-
6	Sector 52 (starting)	Two outlets discharging Sewage Water	-
7	Sector 52 (End)	Two outlets discharging Sewage Water	-
8	One outlet coming from Sec 51	Sewage Water	Already tapped. Now there is no waste water discharge.

6) Existing Status in the catchment of river Ghaggar and Its Tributaries: - Sewage & Industrial effluent management in rural and urban areas, ground water quality, health status of the Public, Water quality of River Ghaggar and Its Tributaries as well as drains contributing to the pollution load in River Ghaggar and Its Tributaries.

There are five STPs **operational** in U.T. Chandigarh which are being operated and maintained by Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration as per details given below.

Sr. No.	Name of STP	Technology	Capacity	Consent Status	Validity	Operated by
1.	Diggian	MBBR	136.2 MLD	Consent Granted by PPCB	-	MC, Chd.
2.	3 BRD	SBR	49.94 MLD	Consent Granted	30.06.19	MC, Chd.
3.	Raipur Kalan	UASB	22.7 MLD	Consent Granted	31.12.21	MC, Chd.
4.	Raipur Khurd	ASP	5.675 MLD	Consent Granted	30.06.25	Engg. Deptt., Chd. Admn.
5.	Dhanas	SBR	7.26 MLD	Consent Granted	31.03.22	Engg. Deptt., Chd. Admn.

Chandigarh Pollution Control Committee monitors the performance of STPs on monthly basis. Data of year 2018 is given in Table 1 to 5.

Table -1

STP Diggian Outlet-2018

Sr.No.	Parameters	Unit	Permissible Limit	Jan.	Feb.	March.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	pH	-	5.5 to 9.0	6.5	7.0	7.2	7.1	7.0	6.9	6.9	7.1	7.3	7.4	7.2	7.1
2	DO	mg/l	-	--	3.9	3.5	3.3	2.9	1.9	3.2	4.9	4.5	4.2	2.6	1.2
3	COD	mg/l	250	198	198	200	187	130	128	95	71	61	56	126	135
4	BOD	mg/l	30	79	96	47	63	58	49	41	21	28	28	51	58
5	TSS	mg/l	100	84	72	73	85	65	56	43	19	46	30	45	39
6	NH_3-N	mg/l	50	20	26	32	25	32	23	30	21	28	37	41	34
7	PO_4-P	mg/l	5.0	3.74	2.21	2.44	3.16	3.01	2.48	2.11	2.05	2.20	3.50	3.10	4.30
8	Total Coliform	MPN/100ml	-	9.3×10^4	9.3×10^2	1.4×10^4	9.6×10^3	1.7×10^5	2.7×10^5	1.7×10^5	7.6×10^4	9.3×10^5	8.0×10^6	1.8×10^6	2.7×10^6
9	Faecal Coliform	MPN/100ml	-	6.1×10^4	6.1×10^2	1.1×10^4	5.4×10^3	6.1×10^4	6.9×10^4	1.4×10^5	5.4×10^4	6.9×10^5	4.5×10^6	1.4×10^5	1.4×10^5

Table -2

STP 3BRD FINAL OUTLET - 2018 (11 MGD)

Sr.No.	**Parameters**	**Unit**	**Permissible Limit**	**Jan.**	**Feb.**	**March.**	**April**	**May**	**June**	**July**	**Aug.**	**Sept.**	**Oct.**	**Nov.**	**Dec.**
1	pH	-	5.5 to 9.0	6.5	7.3	7.3	7.2	7.2	7.3	7.5	7.3	7.7	7.3	7.3	7.3
2	DO	mg/l	-	--	6.9	1.7	6.2	5.9	4.4	5.4	4.6	5.1	4.8	5.6	3.6
3	COD	mg/l	250	100	37	122	33	27	34	73	25	17	11	32	28
4	BOD	mg/l	30	33	15	50*	9	7	11	25	9	5	3	8	9
5	TSS	mg/l	100	52	27	93	28	10	35	77	5	25	9	7	7
6	NH_3-N	mg/l	50	3	3	4	3	7	3	5	5	3	3	6	10
7	PO_4-P	mg/l	5.0	3.71	0.44	8.32	1.76	1.83	1.80	1.91	1.57	BDL	3.80	1.50	3.10
8	Total Coliform	MPN/100ml	-	3.8×10^4	2.1×10^1	6.9×10^4	3.0×10^3	1.1×10^4	1.1×10^3	1.8×10^3	7.6×10^3	7.6×10^4	9.3×10^3	8.0×10^4	7.6×10^4
9	Faecal Coliform	MPN/100ml	-	3.2×10^4	1.7×10^1	4.5×10^4	2.2×10^3	4.5×10^3	6.9×10^2	9.2×10^2	3.2×10^3	1.4×10^4	6.1×10^3	4.5×10^4	4.0×10^4

Table -3

STP Raipur Khurd-2018

Sr.No.	**Parameters**	**Unit**	**Permissible Limit**	**Jan.**	**Feb.**	**March.**	**April**	**May**	**June**	**July**	**Aug.**	**Sept**	**Oct.**	**Nov.**	**Dec.**
1	pH	-	5.5 to 9.0	7.8	7.5	7.5	7.3	-	-	7.3	7.2	7.3	7.6	7.1	7.3
2	DO	mg/l	-	1.7	2.7	2.0	0.92	-	-	NIL	NIL	NIL	NIL	0.48	NIL
3	COD	mg/l	250	187	254	262	215	-	-	223	245	147	195	158	167
4	BOD	mg/l	30	84	103	95	90	-	-	84	114	64	59	62	69
5	TSS	mg/l	100	87	79	57	88	-	-	147	141	68	95	84	56
6	NH_3-N	mg/l	50	41	41	40	35	-	-	39	38	41	28	26.00	31.00
7	PO_4-P	mg/l	5.0	1.71	2.55	0.61	0.65	-	-	0.80	1.57	BDL	1.20	1.00	2.10
8	Total Coliform	MPN/100ml	-	4.0×10^3	4.1×10^3	7.6×10^3	6.9×10^3	-	-	4.0×10^4	4.5×10^4	1.1×10^5	1.7×10^5	3.0×10^5	1.4×10^6
9	Faecal Coliform	MPN/100ml	-	2.0×10^3	2.0×10^3	5.4×10^3	4.0×10^3	-	-	1.4×10^4	1.4×10^4	4.5×10^4	1.1×10^5	1.8×10^5	4.5×10^5

Table-4

STP Raipur Kalan-2018

Sr.No.	Parameters	Unit	Permissible Limit	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	pH	-	5.5 to 9.0	7.3	6.8	7.0	7.0	7.0	7.0	7.1	7.0	7.1	7.1	6.9	7.1
2	DO	mg/l	-	0.6	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.4	NIL	NIL	NIL
3	COD	mg/l	250	312	182	150	110	147	149	130	170	181	138	118	145
4	BOD	mg/l	30	122	82	77	60	66	69	47	84	60	59	59	70
5	TSS	mg/l	100	157	21	26	25	49	38	43	48	59	38	41	22
6	NH_3-N	mg/l	50	37	41	34	27	29	34	35	33	32	36	29	43
7	PO_4-P	mg/l	5.0	3.80	4.23	3.65	4.23	4.40	4.23	3.95	2.61	3.50	3.80	3.50	4.70
8	Total Coliform	MPN/100ml	-	1.4×10^4	2.7×10^3	5.4×10^3	6.9×10^3	9.3×10^5	2.0×10^4	4.0×10^4	3.2×10^4	1.7×10^3	4.5×10^4	1.4×10^5	3.2×10^5
9	Faecal Coliform	MPN/100ml	-	1.1×10^4	1.7×10^3	4.0×10^3	4.5×10^3	6.9×10^5	1.1×10^4	7.6×10^3	8.3×10^3	1.4×10^3	2.0×10^4	9.3×10^4	2.7×10^5

Table -5

STP Dhanas-2018

Sr.No.	Parameters	Unit	Permissible Limit	Jan.	Feb.	March	April	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.
1	pH	-	5.5 to 9.0	8.0	7.9	7.6	7.5	7.3	7.4	7.7	7.6	7.6	7.6	7.6	7.2
2	DO	mg/l	-	--	5.4	4.1	4.9	1.9	2.8	3.6	4.5	5.9	5.2	5.3	5.3
3	COD	mg/l	250	84	86	124	67	65	41	33	36	14	22	39	62
4	BOD	mg/l	30	21	17	33	24	26	13	12	87	4	7	10	12
5	TSS	mg/l	100	24	16	24	17	19	17	11	8	17	6	11	10
7	NH_3-N	mg/l	50	19	10	36	38	37	32	30	22	10	12	13	13
8	PO_4-P	mg/l	5.0	0.82	0.39	0.78	0.97	0.51	0.65	0.53	0.40	BDL	1.30	BDL	1
9	Total Coliform	MPN/100ml	-	21	7.6×10^3	69	34	9.3×10^3	2.2×10^3	9.3×10^4	6.1×10^4	172	2.0×10^4	1.1×10^5	5.4×10^4
10	Faecal Coliform	MPN/100ml	-	14	5.4×10^3	45	32	6.9×10^3	1.8×10^3	2.0×10^4	2.2×10^4	130	1.3×10^4	6.9×10^4	2.7×10^4

Ground Water Quality:

Chandigarh Pollution Control Committee Monitor the quality of ground water on half yearly basis. Now, as per direction of Executive Committee monitoring of Ground Water Quality will be done on quarterly basis.

The Data of ground water quality monitored by CPCC in year 2018 is given in Table 6.

Table -6 (Ground Water Quality) -2018

Sr.No.	Parameters	Desirable	Units	Dadu Majra		SEC-15		SEC-22		VILL		DHANAS		Sec -35		Sec -20	
				April	Oct	April	Octr	April	Oct	April	Oct	April	Oct	April	Oct	April	Oct
1	Temp.	--	^{0}C	21.5	24.0	22.0	24.5	22.0	--	22.0	24.0	22.5	24.0	22.0	24.0	20.5	24.0
2	pH	6.5 to 8.5	--	7.6	7.6	7.0	7.6	7.0	--	7.0	7.2	7.3	7.7	7.0	7.3	7.2	7.4
3	Conductivity	--	µs/cm	746	753	938	878	853	--	1181	1210	664	647	905	863	721	662
4	BOD	--	mg/l	<1	<1	<1	<1	<1	--	<1	2	<1	<1	<1	<1	<1	<1
5	COD	--	mg/l	9	21	4	21	8	--	7	28	10	17	8	24	7	21
6	NO_3-N	50	mg/l	2.80	2.50	1.70	5.9	1.60	--	0.40	<1	2.60	2.6	5.20	4.70	4.60	4.90
7	NH_3-N	--	mg/l	BDL	0.85	1.03	0.92	0.15	--	0.76	1.44	0.49	0.77	BDL	0.55	BDL	1.03
8	Turbidity	5	NTU	3	2	132	44	4	--	50	13	46	18	4	5	6	4
9	P-alk	--	mg/l	14	NIL	28	NIL	18	--	16	NIL	12	NIL	18	NIL	20	NIL
10	T-alk	200	mg/l	322	354	366	374	352	--	450	496	310	328	412	412	288	280
11	Hardness as	300	mg/l	294	240	262	180	294	--	244	160	204	180	314	200	278	260
12	Ca as $CaCO_3$	75	mg/l	224	146	142	90	274	--	212	72	182	116	256	116	228	174
13	Mg as $CaCO_3$	30	mg/l	70	94	120	90	20	--	32	88	22	64	58	84	50	86
14	Sulphate	200	mg/l	35	39	55	50	33	--	66	72	18	22	34	39	51	51
15	TDS	500	mg/l	394	656	590	769	421	--	627	765	353	368	489	528	388	398
16	Total Fixed	--	mg/l	355	370	567	460	436	--	616	552	270	258	398	378	331	310
17	TSS	--	mg/l	4	4	147	8	9	--	8	7	17	7	2	4	3	5
18	Fluoride	1	mg/l	0.85	0.77	0.14	0.31	0.46	--	0.34	0.28	BDL	BDL	0.20	0.37	0.90	0.88
19	Chloride	250	mg/l	50	35	45	45	45	--	80	85	20	18	27	28	23	16
20	Phosphate	--	mg/l	0.02	BDL	0.35	BDL	0.01	--	0.05	BDL	0.01	BDL	0.02	BDL	0.04	BDL
21	Colour			<5	<5	10	10	<5	--	10	10	10	<5	<5	<5	<5	<5
22	Boron		mg/l	0.07	<1	0.05	<1	0.06	--	0.11	<1	0.07	<1	0.07	<1	0.06	<1
23	TKN		mg/l	BDL	<1	BDL	<1	BDL	--	BDL	<1	BDL	<1	BDL	<1	BDL	<1
24	Sodium		mg/l	51	49	38	32	42	--	128	128	41	36	**38**	28	44	39
25	potassium		mg/l	BDL	1	3	3	1	--	5	5	2	2	**2**	2	BDL	<1
26	Fecal Coliform	--	MPN/100ml	34	<2	--	<2	22	--	--	11	84	<2	<2	<2	<2	<2
27	Total Coliform	--	MPN/100ml	39	<2	--	7	26	--	--	32	94	<2	<2	<2	<2	<2

Sr.No.	Parameters	Units	Dadu Majra		SEC-15		SEC-22		VILL PALSORA		DHANAS		Sec -35		Sec -20	
			April	Oct.	April	Oct.	April	Oct.	April	Oct.	April	Oct.	April	Oct.	April	Oct.
28	ARSENIC	mg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
29	CADMIUM	mg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
30	COPPER	mg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
31	LEAD	mg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
32	NICKEL	mg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
33	ZINC	mg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
34	MERCURY	mg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
35	IRON	mg/l	0.43	--	0.78	--	0.92	--	1.2	--	2.1	--	0.09	--	0.84	--
36	CHROMIUM (TOTAL)	mg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
37	Alpha BHC	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
38	Beta BHC	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
39	Gama BHC (Lindane)	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
40	OP DDT	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
41	PP DDT	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
42	Alpha Endosulphan	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
43	Beta Endosulphan	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
44	Dieldrin	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
45	Carboryl (Carbamate)	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
46	2.4 D	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
47	Aldrin	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
48	Malathian	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
49	Methyl Parathian	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
50	Anilophos	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--
51	Chloropyriphos	µg/l	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--	BDL	--

Water quality of River Ghaggar :

Although river Ghaggar is not flowing through Chandigarh. It is passing around 7.0 Km away from Chandigarh but still CPCC from time to time has collected the samples from River Ghaggar after Sukhna Choe joins river ghaggar near Mubarakpur in Punjab. The water quality of River Ghaggar near confluence point at Mubarakpur, Punjab is given in Table -7

Table -7

Quality of River Ghaggar - 2018

Date of monitoring	pH	*COD*	BOD	TSS	NH_3-N	PO_4-P	Chloride
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
18.04.18	7.4	159	27	2294	4.21	1.2	45
23.10.18	7.8	20	4	138	2.58	BDL	-
19.11.18	7.6	53	17	649	7.16	BDL	23
03.12.18	7.4	83	17	391	4.32	1.7	-

Quality of Drains:

Chandigarh Pollution Control Committee monitors the quality of waste water of Sukhna Choe and N-Choe at the exit point of Chandigarh. Data of which is as given below.

Sukhna Choe : Table 8

N-Choe : Table 9

Table 8 (Sukhna Choe Entry Point) - 2018

Sr.No.	Parameters	Unit	Jan.	Feb.	March.	April	May	June	July	Aug.	Sept.	Oct	Nov.	Dec.
1	pH	-	7.3	7.5	7.6	7.5	7.5	7.3	7.0	7.4	7.5	7.5	7.5	7.3
2	Conductivity	µs/cm	1288	1084	1069	1119	1050	952	--	--	--	--	--	--
3	DO	mg/l	2.5	2.8	2.0	2.3	2.1	1.3	2.7	NIL	1.4	1.4	2.1	2.0
4	COD	mg/l	302	476	446	435	360	279	23	237	455	353	463	584
5	BOD	mg/l	92	252	245	193	179	162	13	165	227	230	216	301
6	NO_3-N	mg/l	1.2	--	1.4	3.20	--	--	--	--	--	--	--	--
7	NH_3-N	mg/l	47	35	41	37	41	37	31	38	19	37	36	49
8	Phosphate	mg/l	5.58	4.14	3.8	3.9	5.60	3.53	3.15	3.82	5.00	4.3	5.10	5.6
9	Total Suspended Solid	mg/l	154	123	132	182	89	93	49	120	165	82	125	217
10	TDS	mg/l	646	591	601	656	617	622	--	--	--	--	--	--
11	TFS	mg/l	461	424	502	491	431	420	--	--	--	--	--	--
12	Turbidity	NTU	190	230	240	280	220	165	--	--	--	--	--	--
13	TH as $CaCO_3$	mg/l	220	272	260	266	242	266	--	--	--	--	--	--
14	Ca as $CaCO_3$	mg/l	168	170	156	144	132	160	--	--	--	--	--	--
15	Mg as $CaCO_3$	mg/l	52	102	104	122	110	106	--	--	--	--	--	--
16	Sulphate	mg/l	79	80	77	70	64	54	--	--	--	--	--	--
17	Chloride	mg/l	81	80	58	105	59	50	--	--	--	--	--	--
18	P-Alkalinity	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	--	--	--	--	--	--
19	Total alkalinity as	mg/l	506	456	464	242	486	430	--	--	--	--	--	--
20	Fluoride	mg/l	BDL	0.13	BDL	0.15	0.15	0.22	--	--	--	--	--	--
21	colour	Hazen	40	50	30	30	30	40	--	--	--	--	--	--
22	Boron(B)	mg/l	0.10	0.21	0.23	0.24	0.23	0.21	--	--	--	--	--	--
23	TKN	mg/l	<1	<1	BDL	9.5	--	--	--	--	--	--	--	--
24	Potassium	mg/l	6	6	4	3	--	--	--	--	--	--	--	--
25	Sodium	mg/l	27	29	17	15	--	--	--	--	--	--	--	--
26	Total Coliform	MPN/100	1.1×10^4	3.2×10^4	6.9×10^4	2.2×10^6	--	--	--	--	--	--	--	--
27	Feacal Coliform	MPN/100	8.09×10^3	2.7×10^4	4.0×10^4	1.8×10^6	--	--	--	--	--	--	--	--

Table 8.1 (Sukhna Choe Exit Point) - 2018

Sr. No.	Parameters	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct	Nov.	Dec.
1	pH	-	7.3	7.3	7.5	7.2	7.2	7.3	7.2	7.5	7.6	7.6	7.0	7.5
2	Conductivity	µs/cm	930	971	959	950	954	888	810	918	719	1010	956	1018
3	DO	mg/l	0.83	NIL	NIL	NIL	NIL	NIL	2.2	NIL	NIL	NIL	NIL	NIL
4	COD	mg/l	423	508	546	242	264	301	148	242	163	321	362	386
5	BOD	mg/l	195	267	270	125	123	167	64	179	75	207	133	220
6	NO_3-N	mg/l	1.30	--	1.10	2.10	1.30	4.30	2.40	4.20	2.60	1.10	1.90	2.30
7	NH_3-N	mg/l	--	31	34	33	31	27	20	32	24	30	33	41
8	Phosphate	mg/l	--	3.34	3.21	3.68	3.94	2.45	2.12	2.46	1.40	2.80	2.60	3.60
9	TSS	mg/l	261	317	418	148	159	147	180	136	139	295	250	408
10	TDS	mg/l	441	533	464	452	493	520	199	580	517	580	488	464
11	TFS	mg/l	367	453	565	454	450	439	283	547	425	426	438	424
12	Turbidity	NTU	195	270	320	210	190	180	300	160	148	155	170	220
13	TH as $CaCO_3$	mg/l	260	258	270	270	264	250	106	236	240	268	250	270
14	Ca as $CaCO_3$	mg/l	160	160	160	160	152	140	84	162	130	150	150	160
15	Mg as $CaCO_3$	mg/l	100	98	110	110	112	110	22	74	120	118	100	110
16	Sulphate	mg/l	72	76	85	57	64	61	55	53	52	67	48	63
17	Chloride	mg/l	52	55	47	70	61	57	33	56	45	53	61	41
18	P-Alkalinity	mg/l	NIL	NIL	NIL	16	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
19	Total alkalinity as $CaCO_3$	mg/l	506	514	420	406	446	378	322	398	308	422	396	418
20	Fluoride	mg/l	BDL	BDL	BDL	BDL	0.07	0.20	0.12	0.13	0.15	0.21	0.13	0.22
21	colour	Haze n	30	40	50	30	40	30	30	40	40	40	40	40
22	Boron(B)	mg/l	0.15	0.30	0.28	0.24	0.22	0.23	0.24	0.25	0.16	<1	<1	<1
23	TKN	mg/l	2.90	3.2	2.90	1.50	3.30	3.90	1.90	3.70	2.30	3.10	7.30	6.10
24	Potassium	mg/l	4	5	6	6	7	7	5	9	6	8	9	12
25	Sodium	mg/l	23	28	20	17	23	26	16	31	17	20	48	17
26	Total Coliform	MPN/ 100	1.4×10^5	7.6×10^4	2.7×10^4	3.2×10^4	7.6×10^6	4.5×10^6	9.3×10^4	7.6×10^4	1.0×10^6	1.4×10^6	4.5×10^6	3.8×10^6
27	Faecal Coliform	MPN/ 100	1.1×10^4	5.4×10^4	1.7×10^4	2.2×10^4	3.2×10^6	1.2×10^6	6.9×10^4	5.4×10^4	7.6×10^5	4.5×10^5	6.9×10^5	5.4×10^5

Table -9 (N-Choe Entry Point) - 2018

Sr.No.	Parameters	Unit	Jan.	Feb.	March.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	pH	-	7.8	7.7	7.7	7.2	7.1	7.5	7.5	7.6	7.6	7.5	7.8	7.4
2	Conductivity	µs/cm	341	307	329	325	356	295	405	--	--	--	--	--
3	DO	mg/l	7.6	8.1	7.6	6.9	6.8	6.5	6.3	6.0	6.2	6.8	7.1	7.6
4	COD	mg/l	7	27	28	30	22	15	20	18	10	12	14	18
5	BOD	mg/l	2	1	2	3	2	2	2	2	1	2	2	2
6	NO_3-N	mg/l	1.60	--	3.40	3.00	--	--	--	--	--	--	--	--
7	NH_3-N	mg/l	0.02	0.11	BDL	0.26	0.29	0.51	0.54	0.34	0.57	0.62	0.59	0.37
8	Phosphate	mg/l	0.03	0.03	0.05	0.04	0.07	0.08	0.08	0.07	BDL	0.08	BDL	0.05
9	TSS	mg/l	9	2	8	12	27	12	16	7	24	22	13	10
10	TDS	mg/l	186	159	155	181	205	209	--	--	--	--	--	--
11	TFS	mg/l	133	51	74	146	227	165	--	--	--	--	--	--
12	Turbidity	NTU	4	12	23	22	20	30	--	--	--	--	--	--
13	TH as $CaCO_3$	mg/l	162	184	180	150	152	148	--	--	--	--	--	--
14	Ca as $CaCO_3$	mg/l	114	130	120	80	70	92	--	--	--	--	--	--
15	Mg as $CaCO_3$	mg/l	48	54	60	70	82	56	--	--	--	--	--	--
16	Sulphate	mg/l	23	24	27	28	23	29	--	--	--	--	--	--
17	Chloride	mg/l	12	27	15	20	10	27	--	--	--	--	--	--
18	Total alkalinity as $CaCO_3$	mg/l	154	114	134	142	166	110	--	--	--	--	--	--
19	P-Alkalinity	mg/l	4	4	6	NIL	NIL	NIL	--	--	--	--	--	--
20	Fluoride	mg/l	0.08	BDL	BDL	0.13	0.09	0.18	--	--	--	--	--	--
21	colour	Hazen	5	5	5	5	5	5	--	--	--	--	--	--
22	Boron(B)	mg/l	0.09	0.10	0.13	0.11	0.14	<1	--	--	--	--	--	--
23	TKN	mg/l	1.2	1.2	1.4	1.2	--	--	--	--	--	--	--	--
24	Potassium	mg/l	2	2	3	2	--	--	--	--	--	--	--	--
25	Sodium	mg/l	12	7	6	6	--	--	--	--	--	--	--	--
26	TOTAL COLIFORM	MPN/100	5	<2	39	21	--	--	--	--	--	--	--	--
27	FAECAL COLIFORM	MPN/100	4	<2	26	17	--	--	--	--	--		--	--

Table - 9.1 (N-Choe (Exit Point) - 2018

Sr.No.	Parameters	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	pH	-	6.6	6.9	7.1	7.3	7.1	6.9	7.1	7.1	7.4	7.4	7.0	7.1
2	Conductivity	µs/cm	644	551	668	663	643	638	616	559	724	584	611	696
3	DO	mg/l	NIL	0.6	1.0	0.7	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
4	COD	mg/l	261	261	214	176	168	141	164	82	114	160	204	228
5	BOD	mg/l	161	117	98	80	73	65	77	49	82	79	65	69
6	NO_3-N	mg/l	5.90	--	2.40	2.10	2.00	2.20	2.40	2.80	1.20	1.50	2.00	6.30
7	NH_3-N	mg/l	23	17	20	17	24	18	22	15	19	23	23	29
8	Phosphate	mg/l	2.55	2.05	2.05	2.36	2.51	1.83	2.01	1.03	1.40	2.40	2.40	3.30
9	TSS	mg/l	100	149	82	81	105	82	80	62	37	100	120	113
10	TDS	mg/l	326	259	350	394	297	317	342	345	390	384	300	318
11	TFS	mg/l	267	269	236	273	310	271	274	289	317	280	248	324
12	Turbidity	NTU	110	160	118	125	109	95	113	92	96	112	119	112
13	TH as $CaCO_3$	mg/l	190	206	230	212	220	194	214	210	242	220	220	220
14	Ca as $CaCO_3$	mg/l	118	100	120	120	124	116	122	120	138	128	142	140
15	Mg as $CaCO_3$	mg/l	72	106	110	92	96	78	92	90	104	92	78	80
16	Sulphate	mg/l	66	72	49	52	52	51	62	54	63	68	74	66
17	Chloride	mg/l	42	45	50	45	48	46	45	42	42	40	41	40
18	Total alkalinity as $CaCO_3$	mg/l	260	208	252	258	254	246	246	224	264	234	266	282
19	P-Alkalinity	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
20	Fluoride	mg/l	0.28	BDL	BDL	BDL	BDL	BDL	0.13	0.14	0.13	<1	0.12	0.12
21	colour	Hazen	30	20	20	20	20	20	20	20	30	30	30	30
22	Boron(B)	mg/l	0.19	0.21	0.15	0.14	0.14	<1	0.12	0.15	0.08	<1	<1	<1
23	TKN	mg/l	4.20	4.70	4.20	4.10	3.90	4.30	4.90	4.90	5.30	4.90	26	10.90
24	Potassium	mg/l	7	9	11	8	8	9	10	10	11	12	22	2
25	Sodium	mg/l	23	27	37	30	24	38	43	43	47	28	17	39
26	Total Coliform	MPN/100 ml	2.2×10^4	3.2×10^4	1.4×10^6	6.1×10^5	2.2×10^6	1.7×10^5	5.4×10^5	2.7×10^5	2.7×10^6	2.7×10^6	1.8×10^7	7.6×10^6
27	Faecal Coliform	MPN/100 ml	1.8×10^4	2.0×10^4	9.3×10^5	4.1×10^5	1.1×10^6	1.4×10^5	4.0×10^5	1.4×10^5	8.6×10^5	8.0×10^5	8.0×10^6	1.1×10^5

7. The detail of pollution load in river Ghaggar and Its tributaries within the jurisdiction of the State/UT).

A map (preferably digital map) showing the sources of pollution	Mentioned above Figure 1 & Figure 2
area-wise information relating to– population	Chandigarh Population - 10.54 Lacs (as per 2011 census)
water consumption in MLD	304 MLD
sewage generation in MLD	245 MLD
existing STPs with numbers and exiting sewage treatment capacity in MLD	1. Diggian 136.2 MLD 2. 3 BRD 49.94 MLD 3. Raipur Kalan 22.7 MLD 4. Raipur Khurd 5.675 MLD 5. Dhanas 7.26 MLD
proposed STPs- Nos with treatment capacity in MLD	Maloya 22.7 MLD Raipur Kalan 5.6 MLD Kishangarh near Sukhna Lake 2.0 MLD
drains contributing to pollution load in river Ghaggar	Data placed in Table 1 & 2

8. The detail of Industrial Pollution as well STPs etc.

A map (preferably digital map) showing the sources of Industrial pollution	No industrial waste water is being discharged directly into River Ghaggar and industries are allowed to discharge waste water only after treatment which discharged into sewerage system ultimately reaches to Terminal Sewage Treatment Plant for further treatment.
Area-wise information relating to– sector-wise no. of industries	Being a Planned city Chandigarh has notified Industrial Area and most of the industries are either in Industrial Area Phase-I or Industrial Area Phase-II except Hotel/Restaurant/Hospitals etc which are in sectors the details of industries in Chandigarh Red Category - 192 Orange Category - 575 Green Category - 577 White Category - 1625

Electroplating	98
Foundries	33
Hotel & Restaurants	229
Sewage Treatment Plants	05
Potable Alcohol's bottling	10

<table>
<tr><td></td><td>
<table>
<tr><td>plants</td><td></td></tr>
<tr><td>Automobile Service Stations</td><td>91</td></tr>
<tr><td>Hospitals</td><td>44</td></tr>
<tr><td>Wire Drawing with Pickling</td><td>48</td></tr>
<tr><td>Wire Drawing without Pickling</td><td>07</td></tr>
<tr><td>Slaughter House (Abattoir)</td><td>01</td></tr>
<tr><td>Zinc processing units</td><td>03</td></tr>
<tr><td>Microbreweries</td><td>11</td></tr>
</table>
</td></tr>
<tr><td>Sector-wise total water consumption in MLD</td><td>
<table>
<tr><td>Electroplating</td><td>0.371</td></tr>
<tr><td>Foundries</td><td>0.053</td></tr>
<tr><td>Hotel & Restaurants</td><td>5.498</td></tr>
<tr><td>Potable Alcohol's bottling plants</td><td>0.352</td></tr>
<tr><td>Automobile Service Stations</td><td>0.479</td></tr>
<tr><td>Hospitals</td><td>1.212</td></tr>
<tr><td>Slaughter House (Abattoir)</td><td>0.048</td></tr>
<tr><td>Microbreweries</td><td>0.300</td></tr>
</table>
</td></tr>
<tr><td>Sector-wise industrial effluent generation in MLD</td><td>
<table>
<tr><td>Electroplating</td><td>0.161</td></tr>
<tr><td>Foundries</td><td>0.001</td></tr>
<tr><td>Hotel & Restaurants</td><td>0.176</td></tr>
<tr><td>Potable Alcohol's bottling plants</td><td>0.022</td></tr>
<tr><td>Automobile Service Stations</td><td>0.127</td></tr>
<tr><td>Hospitals</td><td>0.387</td></tr>
<tr><td>Slaughter House (Abattoir)</td><td>0.001</td></tr>
<tr><td>Microbreweries</td><td>0.048</td></tr>
</table>
</td></tr>
<tr><td>Existing capacity of captive ETPs and CETPs in MLD</td><td>All the units which require to treat waste water are having captive ETPs except Restaurant however, all the restaurant are equipped with oil & grease trap as per the mandate of notification of MoEF&CC. At present there is no CETP in Chandigarh.</td></tr>
<tr><td>Sludge generated from STPs as well as municipal solid waste management</td><td>Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration were asked to provide the details however, no reply was received from Engineering Department, Chandigarh Administration. Municipal Corporation, Chandigarh has informed that their STPs are being operated by private contractor and disposal of STP sludge lies with them and being lifted accordingly. No further</td></tr>
</table>

	information was provided by MCC. Sludge from ETPs of Industrial units which is not hazardous is being disposed with municipal waste and sludge which is hazardous in nature in being disposed through TSDF Nimbua.

9. Observations on Gap Analysis etc.

<table>
<tr><td colspan="2">Observations on Gap Analysis w.r.to</td></tr>
<tr><td>Sewage management</td><td>Total Sewage Generated : 245 MLD
Treatment capacity : 221 MLD
Gap (245-221) : 24 MLD</td></tr>
<tr><td>Industrial effluent management</td><td>All the industries which are required to treat their waste water are allowed to operate only after having proper ETP hence, there is no gap.</td></tr>
<tr><td>Operation and maintenance of existing STPs</td><td>Existing STPs are being maintained by MCC and Engg. Deptt. by themselves or through private contractors.</td></tr>
<tr><td>operation and maintenance of existing captive ETPs</td><td>ETPs are being maintained and operated by concerned industry.</td></tr>
<tr><td>operation and maintenance of existing CETPs</td><td>N.A.</td></tr>
<tr><td colspan="2">Compliance status w.r.to the industries located in the catchment area of river Ghaggar and its tributaries within the jurisdiction of the respective SPCB/PCC)</td></tr>
<tr><td>(a) List of industries not having valid consents under Water (Prevention and Control of Pollution) Act, 1974 and authorisation under the HW & OW (M & TM) Rules, 2016 as amended</td><td>Nil</td></tr>
<tr><td>(b) List of Industries complying and non-complying to the effluent discharge norms prescribed by the respective SPCB/PCC;</td><td>
<table>
<tr><th>Month</th><th>No. of inspections</th><th>Remarks</th></tr>
<tr><td>September 2018</td><td>40 Nos.</td><td>All units are complying.</td></tr>
<tr><td>October 2018</td><td>14 Nos.</td><td>All units are complying except one which was service station and</td></tr>
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<tr><td></td><td></td><td>releasing waste water without treatment. Unit is sealed and case for filing prosecution has already been handed over to counsel.</td></tr>
<tr><td>November 2018</td><td>49 Nos.</td><td>All units are complying.</td></tr>
</table>

Further, as per the directions of Executing Committee on 08.01.2019, samples were collected from various industries, status of which are given below:-

Total inspected unit : 26
Complying : 22
Non complying : 4 (Show Cause Notice is being issued)
(03- Electroplating & 01- Bottling Plant)
List enclosed at annexure-VIII</td></tr>
<tr><td>(c) List of industries indulged in illegal disposal of industrial effluent;</td><td>Nil</td></tr>
<tr><td>(d) Industrial hazardous waste (generated from industries, captive ETPs and CETPs) management</td><td>Hazardous waste generated in industrial units is disposed through recyclers/reprocessor/TSDF situated in other states. Details of which has been already been provided at Sr. No. 4.2 (d) above.</td></tr>
</table>

10. Proposed action plans (short term, medium and long term plans) with time lines including the organisation/agency responsible for its implementation- action plan should cover aspects as detailed below:-

<u>Action Plan for control of Domestic Sewage</u>

As per information received from Engineering Department, Chandigarh Administration, Municipal Corporation, Chandigarh and Chandigarh Smart City Limited, action plan has been prepared regarding stoppage of discharge waste water into Sukhna Choe & N-Choe, upgradation of existing STPs and installation of new STPs. Details of which are given as under.

Action Plan for control of discharge of waste water into Sukhna Choe

Sr. No.	Point	Status as on December 2018	Long Term/Short Term Action Plan	Financial Implications	Implementing Agency
1	Kishangarh Outlet	There is sewage water discharge from the outlet.	STP has been proposed to treat the waste water (Will be commissioned by Nov. 2021)	-	Chandigarh Smart City Ltd.
2	Outlet of Village Kishangarh inside Forest Nursery	There is sewage water discharge from the outlet.	Engineering Department, Chandigarh Administration will tap the same by 31.03.2019.	Rs. 19.94 Lakhs	Engg. Deptt., Chd. Admn.
3	Outlet of Village Hallomajra	Around 70 % household have already been connected to sewer line.	By 31.01.2019 all the household will be connected to sewer line. After that there will no discharge of waste water.	-	MC, Chd.
4	Second outlet of Bapu Dham Colony (Known as Madrasi Colony)	The slum developers have constructed their toilets on the existing CBD. Matter has now been taken up with Estate Office, U.T. Chandigarh for removal of encroachment on the CBD at Bapu Dham Colony, so that flow coming into	Municipal Corporation Chandigarh has stopped all such discharges points and there is no waste water discharge. (For long term CBD will be replaced by RCC pipe and will be completed by 31.12.2019)	Rs. 22.00 Lakhs	MC, Chd.

		Choe may be plugged.			

Action Plan for control of discharge of waste water into N-Choe

Sr. No.	Point	Status as on December 2018	Long Term/Short Term Action Plan	Financial Implications	Implementing Agency
1	Leisure valley	01 outlets is discharging waste water	One Outlet has been plugged and there is little discharge from one outlet, will be plugged by 31.12.2018.	Rs. 5.00 Lakhs	MC,Chd.
2	01 outlet in Beant Memorial	Water logging	This is major work and will be completed by August, 2019.	Rs. 182.00 Lakhs	MC,Chd.
3	Sector 52 (starting)	Two outlets discharging Sewage Water	The work will be taken care when the work of Sr. No. 2 will be completed (Will be plugged by 31.12.2019).	-	MC,Chd.
4	Sector 52 (End)	Two outlets discharging Sewage Water	One outlet has been plugged and another outlet will be plugged by 31.12.2019.	-	MC,Chd.

Sewage Treatment Plant

Chandigarh Smart City Limited is in process for **upgradation** of below 05 STPs to treat the waste water upto the level of 5 mg/l BOD and also in the process for setting up of new STPs as per detail given below.

Sr. No.	Location of STP	Capacity	Action Plan	Implementing Agency

1.	Diggian	30 MGD (136.2 MLD)	Will be upgraded to treat the waste water upto the level of 5 mg/l BOD **by Nov. 2021**	Chandigarh Smart City Limited
2.	3 BRD	11 MGD (49.94 MLD)	Will be upgraded to treat the waste water upto the level of 5 mg/l BOD **by Nov. 2021**	Chandigarh Smart City Limited
3.	Raipur Kalan	5 MGD (22.7 MLD)	Will be upgraded to treat the waste water upto the level of 5 mg/l BOD **by Nov. 2021**	Chandigarh Smart City Limited
4.	Raipur Khurd	1.25 MGD (5.67 MLD)	Will be **upgraded to 2.0 MGD** Capacity and to treat the waste water upto the level of 5 mg/l BOD **by Nov. 2021**	Chandigarh Smart City Limited
5.	Dhanas	1.6 MGD (7.26 MLD)	Will be upgraded to treat the waste water upto the level of 5 mg/l BOD **by Nov. 2021**	Chandigarh Smart City Limited

Further, the following Sewage Treatment Plants are **under construction:-**

Sr. No.	**Location of STPs**	**Capacity**	**Timelines**	**Implementing Agency**
1.	Maloya	5 MGD (22.70 MLD)	Will be operational by 31.01.2019	Municipal Corporation, Chandigarh
2	Raipur Kalan	1.25 MGD (5.67 MLD)	Will be operational by 30.06.2019.	Engineering Department, Chandigarh Administration.

One new Sewage Treatment Plant is also **proposed** to be constructed in Kishangarh Near Sukhna Lake, detail of which is given below:-

Sr. No.	**Location of STPs**	**Capacity**	**Timelines**	**Implementing Agency**
1	Kishangarh near Sukhna Lake	2.0 MLD	Will be Completed by November 2021	Chandigarh Smart City Limited

(I) Domestic Sewage Management	
including source reduction and	Bulk generators and even houses where

control measures by bulk sewage generators	tertiary water supply is available are asked to use as much as possible tertiary water which will reduce the fresh water consumption.
measures for conveyance of sewage through dedicated sewer lines connectivity to STPs	Whole of Chandigarh connected with Sewerage System and dedicated sewerage lines are there to carry the waste water directly to the sewage treatment plant.
measurement of flows of drains connected to the river/tributaries under reference	Despite of request to MCC and Engg. Deptt. Chd. Admn, no department has measured the flows of drains.
on-site or in-site treatment measures	Waste water from whole of the Chandigarh goes to Terminal Sewage Treatment Plants. Now, as per order of Hon'ble NGT residential societies having more than 10,000 sq. meters built up area have to install on site STP which is being enforced.
end use of treated sewage for beneficial use complying to the prescribed standards	Treated water is being supplied to various gardens and institutions for gardening purpose. Further, network is being laid to supply the treated water in all areas after which around 20 MGD tertiary waste water will be supplied. This will be completed by March 2020.
preparation and execution of the project proposals for sewage management through state-of-the–art STP	Chandigarh Smart City Limited is going to upgrade all the existing STPs to treat the waste water upto the level of 5 mg/l BOD.
strict vigilance effective enforcement of standards prescribed under the Environment (Protection) Act, 1986	CPCC is monitoring performance of STPs on monthly basis and results are shared with concerned agencies to take corrective measures.
actions initiated against violators, sewage management in rural areas with low cost treatment technologies like constructed wet lands)	N.A.

(II) Industrial effluent management	
measures which include source control like adoption of state-of-the-art technologies	Presently there is no CETP in Chandigarh being a very small city and very less generation of waste water. There are around 100 electroplating units all of which have captive ETPs. Because of cost of land no CETP is feasible in U.T. Chandigarh. Now, there is one firm which is in process for

	setting up of CETP in Punjab and ready to accept the waste of electroplating units of Chandigarh.
reuse of treated industrial effluent to reduce fresh water consumption	Treated industrial effluent goes to Sewage Terminal Treatment Plant and again treated there from where tertiary treated waste water is supplied to various gardens and institute.
adoption of zero liquid discharge	Possibility in this regard will be looked out.
sludge management	Sludge from ETPs of Industrial units which is not hazardous is being disposed with municipal waste and sludge which is hazardous in nature in being disposed through TSDF Nimbua.
recovery and reuse of recovered chemicals in the process	N.A.
measures for conveyance of industrial effluent through dedicated lines and its connectivity to ETPs/CETPs	There is no CETP in Chandigarh.
preparation and execution of the project proposals for industrial effluent management (ETPs/CETPs)	Presently there is no CETP in Chandigarh being a very small city and very less generation of waste water. There are around 100 electroplating units all of which have captive ETPs. Because of cost of land no CETP is feasible in U.T. Chandigarh. Now, there is one firm which is in process for setting up of CETP in Punjab and ready to accept the waste of electroplating units of Chandigarh.
Strict vigilance	All efforts are being done to monitor industries and applicable actions as and when required are being taken.
Effective Enforcement of standards prescribed under the Environment (Protection) Act, 1986, action against violators	

(III) Ground water management	
obtaining of NOC from CGWB for use of ground water resources	On enquiring, it has been informed that in case of Chandigarh CGWB is not giving NOC it is being done by Municipal Corporation, Chandigarh.
ground water survey for quality assessment	Ground water data has already been given in Table 2.
identification of problem sources	Till date as per the available data there is no such problem in ground water of U.T. Chandigarh.

sealing of contaminated hand pumps/tube wells used by the general public for drinking water purposes	Municipal Corporation, Chandigarh has already banned use of hand pump for drinking purpose. Tube wells are used for supply only by MC, Chd.
supply of ground water to the public living in areas where ground water is contaminated	N.A.
measures to control depletion of groundwater table as well as for increasing ground water levels (ground water recharge measures)	There is no such problem in U.T. Chandigarh.
remedial measuresfor decontamination of highly polluted groundwater resources within the jurisdiction of the respective State/UT	There is no polluted ground water source in U.T. Chandigarh.

(IV) Restoration of river Ghaggar and Its tributaries water quality

All the efforts are being done to ensure that no sewer/waste water will be allowed to discharge into Sukhna choe and no industrial waste water goes to river ghaggar so in future (after implementation of action plan) there will not be any pollution load in river Ghaggar.

(V) Maintaining of E-Flows for having ecological balance in the river system

River Ghaggar is passing around 7.0 K.M. far from Chandigarh hence maintaining of E-flow is not applicable in case of U.T. Chandigarh.

(VI) Awareness on :

Effective use of groundwater resources for agriculture purpose	N.A.
Health status and organising health camps	Health camps was organised by Health Department on **11.11.2018**. In future more health camps will be organised to aware general public regarding ill effect of improper disposal of waste water. **(Annexure-IX)**

(vii) Monitoring of executing the actions plans:

Execution of Action Plan will be monitored by Chandigarh Pollution Control Committee.

Annexure-I

CHANDIGARH ADMINISTRATION
DEPARTMENT OF ENVIRONMENT

ORDER

A District Level Special Task Force and State Level Special Task Force consisting of the following members are hereby constituted as per the direction of Hon'ble National Green Tribunal, New Delhi in the matter O.A. No. 138 of 2016 and O.A. No. 139 of 2016 titled "Stench Grips Mansa's Sacred Ghaggar River".

District Level Special Task Force:-

1. District Magistrate, U.T., Chandigarh	-	Chairman
2. Superintendent of Police, Chandigarh Police	-	Member
3. One person to be nominated by the District Judge in his capacity of Head of the District Legal Services Authority.	-	Member
4. Superintending Engineer, Public Health Division, Engineering Department, Chandigarh Administration.	-	Member
5. Superintending Engineer, Public Health Division, Municipal Corporation, Chandigarh.	-	Member
6. Scientist 'B', Chandigarh Pollution Control Committee	-	Member Secretary

State Level Special Task Force:-

1. Advisor to the Administrator, U.T., Chandigarh	-	Chairman
2. Secretary Environment, Chandigarh Administration	-	Member
3. Secretary, Urban Planning, U.T., Chandigarh	-	Member
4. Secretary, Local Body, U.T., Chandigarh.	-	Member
5. Commissioner, Municipal Corporation, Chandigarh	-	Member
6. Chief Engineer, Engineering Department, Chandigarh Administration	-	Member
7. Member Secretary, Chandigarh Pollution Control Committee	-	Member Secretary

The District Level Special Task Force so constituted shall identify the persons responsible for violation of law in the said matter. The District Level Task Force will submit a monthly action taken report to the State Level Special Task Force and State Level Special Task Force will furnish 3 monthly report or the action taken report to the Central Pollution Control Board.

This is issued with the approval of Competent Authority.

Dated Chandigarh
the September 7th, 2018

DEBENDRA DALAI, IFS
Special Secretary Environment
Chandigarh Administration

Endst.No.ED/2018/1310 – 1322 Chandigarh, dated the 7/9/18

A copy is forwarded to the following for information and necessary action:-

1. Advisor to the Administrator, U.T., Chandigarh.
2. Secretary Environment, Chandigarh Administration.
3. Secretary, Urban Development, U.T., Chandigarh.
4. Secretary, Local Body, U.T., Chandigarh.
5. Commissioner, Municipal Corporation, Chandigarh.
6. Chief Engineer, Engineering Department, Chandigarh Administration.
7. Member Secretary, Chandigarh Pollution Control Committee.
8. District Magistrate, U.T., Chandigarh.
9. Superintendent of Police, Chandigarh Police.
10. One person to be nominated by the District Judge in his capacity of Head of the District Legal Services Authority.
11. Superintending Engineer, Public Health Division, Engineering Department, Chandigarh Administration.
12. Superintending Engineer, Public Health Division, Municipal Corporation, Chandigarh.
13. Scientist 'B', Chandigarh Pollution Control Committee.

DEBENDRA DALAI, IFS
Special Secretary Environment
Chandigarh Administration

Endst.No.ED/2018/1323 Chandigarh, dated the 7/9/18

A copy is forwarded to the Secretary to the Administrator, U.T. Chandigarh for the kind information of the H.E. the Administrator, U.T., Chandigarh.

Annexure-II

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Minutes of the meeting held on 12th September, 2018 regarding preparation of Action Plan w.r.t. Up-gradation of existing Sewage Treatment Plants & Tapping of untreated waste water into Choes/Drainage.

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A meeting to discuss the matter regarding preparation of Action Plan w.r.t. Up-gradation of existing Sewage Treatment Plants & Tapping of untreated waste water into Choes/Drainage is held in the O/o Member Secretary, Chandigarh Pollution Control Committee. The following members were present:-

1. Sh. T.C. Nautiyal, IFS, Member Secretary, Chandigarh Pollution Control Committee.
2. Sh. Vivek Pandey, Scientist 'B', Chandigarh Pollution Control Committee.
3. Sh Harish Kumar Saini, Executive Engineer, Municipal Corporation, Chandigarh.
4. Sh. Amit Sharma, Sub Divisional Engineer, Municipal Corporation, Chandigarh.
5. Sh. Kamal Kishore, Executive Engineer, Chandigarh Administration.
6. Sh. Rajinder Singh, Superintending Engineer, Chandigarh Administration.

The following points have been discussed in the meeting:-

1) Stoppage of sewer discharge point in N-Choe.
2) Stoppage of untreated waste water discharge near Sector 48 (3BRD).
3) Stoppage of waste water discharge points in Sukhna Choe specifically about colony no. 4 & Hallomajra.
4) Stoppage of going of industrial waste water into Sukhna Choe (pump house behind poultry farm)
5) Stoppage of waste water behind Gaushala, Industrial Area, Phase-I, Chandigarh.
6) Stoppage of waste water inside the forest area, Phase-I.
7) Upgradation of existing STPs
8) Construction of new STPs
9) Quantification of complete waste water discharge (Total Load).

During discussion, it has been decided that a joint field visit will be carried out on 18.09.2018 at 11:00 AM onwards alongwith the officers of Engineering Department, Chandigarh Administration and Municipal Corporation, Chandigarh for indentification of all the discharge points of untreated waste water into drains. Thereafter, Engineering Department, Chandigarh Administration and Municipal Corporation, Chandigarh will submit the action plan by 21.09.2018.

Rajinder Singh,
Superintending Engineer, Engg. Deptt. Chd. Admn.

Kamal Kishore,
Executive Engineer, Engg. Deptt. Chd. Admn.

Harish Kumar Saini,
Executive Engineer, MCC

Amit Sharma,
Sub Div. Engineer, MCC

T.C. Nautiyal, IFS
Member Secretary, CPCC

Vivek Pandey,
Scientist 'B', CPCC

Annexure-III

(65)

MINUTES OF THE JOINT INSPECTION HELD ON 18TH SEPTEMBER, 2018 TO CHECK THE DISCHARGE OF UNTREATED WASTE WATER IN SUKHNA CHOE.

A joint inspection was carried out by the following Officers of Engineering Department, Chandigarh Administration, Municipal Corporation, Chandigarh and Chandigarh Pollution Control Committee to check the various points where sewage water is discharged without treatment into Sukhna Choe:-

1. Sh. T.C. Nautiyal, IFS, Member Secretary, Chandigarh Pollution Control Committee.
2. Sh. Vivek Pandey, Scientist 'B', Chandigarh Pollution Control Committee.
3. Sh. Kamal Kishore, Executive Engineer, Chandigarh Administration.
4. Sh. Prabhjot Singh, Sub. Divisional Officer, Municipal Corporation, Chandigarh.
5. Sh. Sukhraj Singh, Sub. Divisional Engineer, Engineering Department, Chandigarh Administration.
6. Sh. Bhupinder Singh, Junior. Engineer, Municipal Corporation, Chandigarh.

The observations are given as under:-

Sr. No.	Point	Status
1	Kishangarh Outlet	There is sewage water discharge from the outlet.
2	Outlet of Village Kishangarh inside Forest Nursery	There is sewage water discharge from the outlet.
3	Outlet of Shastri Nagar	There is sewage water discharge of sewage water.
4	First outlet of Bapu Dham near bridge on the road connecting IT park with Sector 26, Chandigarh	There is sewage water discharge at first outlet of Bapu Dham near bridge on the road connecting IT Park
5	Second outlet of Bapu Dham Colony (Known as Madrasi Colony)	There is sewage water discharge at second outlet of Bapu Dham colony
6	Outlet from back of Gaushala, Industrial Area, Phase-I, Chd.	There is substantial sewage discharge from back of Gaushala, Industrial Area, Phase-I, Chd.
7	Outlet near CTU workshop Industrial Area, Phase-I, Chd. (Inside Forest Area)	There is sewage discharge at the outlet near CTU workshop.

8	Indl. Area, Phase - I, Colony No. 4.	There is discharge from many outlets from Indl. Area, Phase - I, Colony No. 4.
9	Pump House operated by Municipal Corporation behind Central Poultry Development Organization, Indl. Area, Phase - I, Chandigarh.	In case of Non-operation of pump, waste water directly goes to Sukhna Choe on regular basis.
10	Outlet of Village Hallomajra	There is substantial sewage discharge from the outlet of Village Hallomajra.

Other than above, there was one point at Makhan Majra, where waste water leakage is there which is assured by Engineering Department, Chandigarh Administration that they will repair the same with immediate effect.

Thereafter, Engineering Department, Chandigarh Administration and Municipal Corporation, Chandigarh have assured that they will submit the action plan by 21.09.2018 (Friday) on the following points:-

1. Stoppage of Sewage waste water from above points.
2. Up-gradation of existing Sewage Treatment Plants.
3. Tapping of untreated waste water into Choes/Drainage.

Prabhjot Singh, Sub. Div. Officer, MCC

Sukhraj Singh, Sub. Div. Engineer, Engg. Deptt., Chd. Admn.

Bhupinder Singh, Jr. Engineer, MCC

Vivek Pandey, Scientist 'B', CPCC

Kamal Kishore, Executive Engineer, Engg. Deptt. Chd. Admn

T.C. Nautiyal, IFS Member Secretary, CPCC

(171) Annexure-IV

MINUTES OF MEETING OF DISTRICT LEVEL TASK FORCE HELD ON 01.10.2018 AT 11:00 A.M. UNDER THE CHAIRMANSHIP OF DISTRICT MAGISTRATE, U.T. CHANDIGARH IN COMPLIANCE OF HON'BLE NGT ORDER DATED 07.08.2018 IN THE MATTER OF OA NO.138 OF 2016 (TNHRC) (CASE NO. 559/19/11/14) AND OA NO. 139 OF 2016 (TNHRC) TITLED STENCH GRIPS MANSA'S SACRED GHAGGAR RIVER (SUO-MOTU CASE) AND YOGENDER KUMAR.

The following officers were present in the meeting: -

Sr. No.	Name of Officer & Designation	Deptt's. Name	Mobile No.
1.	Sh. Amarinder Sharma, Secretary,	District Legal Services Authority,	7569730007
2.	Sh. Vivek Pandey, Scientist 'B'	Chandigarh Pollution Control Committee	9888116680
3.	Sh. Suresh Kumar, XEN	PH-2, M.C.	------
4.	Ms. Sarita Roy, SI	I/C Neelam Police Post	9779580932
5.	Sh. Sukhraj Singh, SDE	PH Divn., Engg. Deptt., Chd.	7508185457

At the outset, Sh. Vivek Pandey, Scientist 'B', CPCC apprised about the directions of the Hon'ble National Green Tribunal, New Delhi regarding the discharge of waste water – industrial as well as municipal into River Ghaggar. The District Level Special Task Force will identify the defaulters for discharging the waste water into the drains which ultimately reaches to Ghaggar river. Under the statutory scheme, the Pollution Control Boards are required to prosecute all those who are responsible for discharging the effluents beyond standards and also to close all such commercials/industrial establishments. The District Level Special Task Force will submit monthly report to the State Level Special Task Force. Then, the State Level Task Force will submit a 3 monthly report or recommendation to the Executing Committee.

The following points were discussed in the meeting: -

1. Stoppage of Sewer discharge points in N-Choe.
2. Stoppage of waste water discharge points in Sukhna Choe specifically about colony No.4 & Hallomajra.
3. Stoppage of going of industrial waste water into Sukhna Choe (pump house behind poultry farm).
4. Upgradation of existing STPs/setting up of new STPs.
5. Maintenance of Log Book.
6. Formation of Action Plan.
7. Identification of the defaulters by M.C.

The following decisions were taken in the meeting: -

1. Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration will upgrade the existing STPs/set up new STPs in their respective jurisdiction to meet with the standards directed by CPCB/CPCC

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and action plan in this regard alongwith timeline will be submitted within 15 days. The CPCB will further ensure the purity of water up to 5 BOD.

2. The officers of Chandigarh Pollution Control Committee (CPCC), Engineering Department Chd. Admn. and Municipal Corporation, Chd. have identified the 10 points where sewerage water is discharged without treatment into Sukhna Choe. Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration will take measures to tap these points to ensure that no untreated waste water release into Sukhna Choe. Status report in this regard will be submitted by the M.C. within 15 days.

3. Prior intimation shall be given by the CPCC to the Police Deptt. for providing police protection to the officers for carrying out inspection and deputing the beat cops with the team.

4. Municipal Corporation, Chandigarh will provide the list of industrial plots who have not taken sewer connection.

5. Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration will make standby arrangement of pumps alongwith the existing pumps at sewage pumping stations and Log Book shall be maintained at each pumping station.

6. Points where waste water is being discharged into N-Choe to be identified in the coming time in scheduled manner. M.C. and CPCB will submit plan of action in 15 days.

7. CPCC will provide the quality of drains at entry/exit points of Chandigarh region.

8. MC, Chd. will provide the details of discharge points at Patiala ki rao and provide the action plan for stoppage of the same.

9. MC, Chd. will identify the people who have laid down illegal pipelines and discharging waste water into storm water drainage system/drains and Public Notice shall be given by the CPCC in this regard. Police will follow this.

10. The next meeting will be held on 10.10.2018.

Amarinder Sharma, Secretary
O/o District Legal Services Authority
(Member)

Vivek Pandey, Scientist 'B'
O/o Chd. Pollution Control Board
(Member)

Suresh Kumar, XEN
O/o P.H. Divn. No.2, M.C.
(Member)

Sarita Roy, SI
I/C Neelam Police Post
O/o Superintendent of Police,
(Member)

Sukhraj Singh, SDE
O/o P.H. Divn. Engg. Deptt.
(Member)

Sachin Rana, IAS
District Magistrate, Chd.
(Chairman)

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Annexure-V

MINUTES OF 2nd MEETING OF DISTRICT LEVEL TASK FORCE HELD ON 11.10.2018 AT 09:30 A.M. UNDER THE CHAIRMANSHIP OF SHRI SACHIN RANA, IAS, DISTRICT MAGISTRATE, U.T. CHANDIGARH IN COMPLIANCE OF HON'BLE NGT ORDER DATED 07.08.2018 IN THE MATTER OF OA NO.138 OF 2016 (TNHRC) (CASE NO. 559/19/11/14) AND OA NO. 139 OF 2016 (TNHRC) TITLED STENCH GRIPS MANSA'S SACRED GHAGGAR RIVER (SUO-MOTU CASE) AND YOGENDER KUMAR.

The following officers were present in the meeting: -

Sr. No.	Name of Officer & Designation	Deptt's. Name	Mobile No.
1	Sh. Vivek Pandey, Scientist 'B'	Chandigarh Pollution Control Committee	9888116680
2.	Sh. Suresh Kumar Gill, XEN	PH-2, M.C.	9872511258
3	Insp. Pavnesh Kumar	Chandigarh Police	9779580998
4	Sh. Sukhraj Singh, SDE	PH Divn., Engg. Deptt., Chd.	7508185457

Initially, Sh. Vivek Pandey, Scientist 'B', CPCC submitted the test reports of water quality of all the three drains at Entry and Exit points of Chandigarh and also submitted the list showing waste water discharge points at N-Choe. He also informed that public notice w.r.t. prohibition of discharge of waste water into drains, as decided in 1st meeting, has been published in various newspapers. He further apprised that BOD/TSS levels are very high at all the exit points which should be less than 30 mg/l for BOD and 100 mg/l for TSS as per existing norms. He has also submitted that there is no provision for treatment of coliform in the existing STPs except in Diggian which is also not sufficient. He, thereafter informed the Chair that the action plan has not been received from both the deptt. and DO letters have also been sent by the Secretary Environment.

Further, Sh. Suresh Kumar, XEN, P.H., Divn. No. 2, M.C. apprised that waste water discharge in N-Choe has been stopped upto sector 23 and action plan for stopping of remaining points will be submitted by the M.C. immediately in two days of this meeting.

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The following decisions were taken in the meeting: -

1. The points through which the waste water is being discharged directly into the N-choe should be closed within 15 days by the M.C. with the support of police.

2. The format for action plan will be given by CPCC to the Municipal Corporation and Engg. Deptt., Chd. Admn. by today and thereafter the action taken report will be submitted by both the departments within three days.

3. The next meeting will be held on 22.10.2018 at 04:00 p.m.

Vivek Pandey, Scientist 'B'
O/o Chd. Pollution Control Board
(Member)

Suresh Kumar, XEN
O/o P.H. Divn. No.2, M.C.
(Member)

Pavnesh Kumar, Insp. 12/X/18
O/o Superintendent of Police,
(Member)

Sukhraj Singh, SDE
O/o P.H. Divn. Engg. Deptt.
(Member)

Sachin Rana, IAS
District Magistrate, Chd.
(Chairman)

Annexure-VI

MINUTES OF 3rd MEETING HELD ON 07.12.2018 AT 03:00 P.M. UNDER THE CHAIRMANSHIP OF DEPUTY COMMISSIONER, U.T. CHANDIGARH IN CONNECTION WITH THE DIRECTIONS DATED 07.08.2018 ISSUED BY THE HON'BLE NGT IN THE MATTER O.A. No. 138 of 2016 AND O.A. No. 139 of 2016 TITLED – "STRENCH GRIPS MANSA's SACRED GHAGGAR RIVER AND YOGENDER KUMAR".

The following officers were present in the meeting: -

Sr. No.	Name of Officer & Designation	Deptt's. Name	Mobile No.
1.	Sh. Amarinder Sharma, Secretary,	District Legal Services Authority,	7569730007
2.	Er. Sh. Sanjay Arora, SE	S.E. (PH) MCC	995711456
2.	Sh. Vivek Pandey, Scientist 'B'	Chandigarh Pollution Control Committee	9888116680
3.	Sh. Suresh Gill, XEN	M.C., P.H.-2	9872511258
4.	Sh. I.D. Sharma, XEN	P.H., M.C.	9872511231
5.	Ms. Shobhna Pathania, Nodal Officer, Health Department	GMSH-16, Chd.	9041046076
6.	Sh. Kamal Kishore, XEN	P.H.-3, Chd.	9915222400
7.	Sh. Vijay Kumar, XEN	M.C. P.H.	9872511245
8.	Sh.Sukhraj Singh, SDE	O/o EE PH-3	7508185457
9.	Sh. Rajbir Singh, SDE	P.H., MC	9872511352
10.	Sh. Harish Saini, XEN	PH-1, M.C.	9872511254
11.	Dr. Amrit, MOH	M.C.	9888348852
12.	Sh. Jaspal Singh, SHO, PS-17	Police Deptt.	9779580917
13.	Sh. N.P. Sharma, General Manager	Chandigarh Smart City Ltd.	9781010000
14.	Sh. Surinder Kumar, SDO (Bldg.)	Estate Office	9216465070

At the outset, Sh. Vivek Pandey, Scientist 'B', CPCC apprised about the directions of the Hon'ble National Green Tribunal, New Delhi regarding the discharge of effluents – industrial as well as municipal into River Ghaggar. The District Level Special Task Force will identify the defaulters for discharging the effluents into the Ghaggar river beyond standards. Under the statutory scheme, the Pollution Control Boards are required to prosecute all those who are responsible for discharging the affluents beyond standards and also to close all commercials establishments. The District Level Special Task Force will submit monthly report to the State Level Special Task Force. Then, the State Level Task Force will submit a 3 monthly report or recommendation to the Central Pollution Control Board.

Sh. Vivek Pandey Informed that River Ghaggar is passing around 7 Kms. far from Chandigarh and there are two main sources of discharge from Chandigarh 1) Sukhna Choe 2) N-Choe. In these choes two types of waste water is being discharged

1) Treated waste water from the STPs.
2) Direct discharge of untreated waste water

Thereafter Municipal Corporation and Engg. Department were asked to provide the information related to action taken on discharge points in Sukhna Choe and N-Choe and action

plan where action is yet to be taken. Details w.r.t. action taken and action plan are as given below :

STATUS OF UNTREATED WASTE WATER DISCHARGE IN SUKHNA CHOE

Sr. No.	Point	Status as on September 2018	Status as on 07.12.2018	Action Plan
1	Kishangarh Outlet	There is sewage water discharge from the outlet.	As a short term measure proposal has been submitted to lift the waste water and connect it with sewerage line	STP has been proposed to treat the waste water (Will be commissioned by Nov. 2022)
2	Outlet of Village Kishangarh inside Forest Nursery	There is sewage water discharge from the outlet.	Still sewage is being discharged	Chandigarh Administration will tap the same by 31.03.2019.
3	Outlet of Shastri Nagar	There is sewage water discharge.	Sump has already been created	Sewage water will be pumped to the sewer line.
4	First outlet of Bapu Dham near bridge on the road connecting IT park with Sector 26, Chandigarh	There is sewage water discharge at first outlet of Bapu Dham near bridge on the road connecting IT Park	Leakage has been plugged.	-
5	Second outlet of Bapu Dham Colony (Known as Madrasi Colony)	There is sewage water discharge at second outlet of Bapu Dham colony	The slum developers have constructed their toilets on the existing CBD. Matter has now been taken up with Estate Office, U.T. Chandigarh for removal of encroachment on the CBD at Bapu Dham Colony, so that flow coming into Choe may be plugged.	Municipal Corporation Chandigarh will stop all such discharges within 10 days by providing alternate arrangements for the locals i.e. 18.12.18
6	Outlet from back of Gaushala, Industrial Area, Phase-I, Chd.	There is substantial sewage discharge from back of Gaushala, Industrial Area, Phase-I, Chd.	-	Municipal Corporation Chandigarh will plug the discharge within 10 days i.e. 18.12.18
7	Outlet near CTU workshop Industrial Area, Phase-I, Chd. (Inside Forest Area)	There is sewage discharge at the outlet near CTU workshop.	CTU has plugged the waste water flow. Now there is no waste water discharge.	Regular inspection will be done to ensure that there is no waste water discharge into

				Sukhna Choe.
8	Indl. Area, Phase - I, Colony No. 4.	There is discharge from many outlets from Indl. Area, Phase - I, Colony No. 4.	Waste water has already been tapped and diverted to sewer line.	Regular inspection will be done to ensure that there is no waste water discharge into Sukhna Choe.
9	Pump House operated by Municipal Corporation behind Central Poultry Development Organization, Indl. Area, Phase - I, Chandigarh.	In case of Non-operation of pump, waste water directly goes to Sukhna Choe on regular basis.	New stand by motor has already been installed and now no waste water is being discharged into Sukhna Choe.	Regular inspection will be done to ensure that there is no waste water discharge into Sukhna Choe.
10	Outlet of Village Hallomajra	There is substantial sewage discharge from the outlet of Village Hallomajra.	Around 70% of household have been connected to sewer line and for remaining 30% work is under process.	By 31.01.2019 all the household will be connected to sewer line.
11	Village Daria	There is discharge of sewage water from Village Daria	Excess sewage of unauthorised colony in village Daria has been tapped and put in the sump and the same is being pumped into the sewer line.	-

STATUS OF UNTREATED WASTE WATER DISCHARGE IN N- CHOE

Sr. No.	Point	Status as on September 2018	Status as on 07.12.2018	Action Plan
1	leisure valley	02 outlets are discharging waste water	Outlets have been plugged. Now there is no waste water discharge.	-
2	Near red cross (Madhya Marg)	01 outlet discharging waste water	Outlet has been plugged. Now there is no waste water discharge.	-
3	Sec 23 near B.D Hospital (Neuro Psychiatry)	01 outlet discharging waste water	Outlet has been plugged. Now there is no waste water discharge.	-

4	Bal Bhawan side	Very less discharge	Outlet has been plugged. Now there is no waste water discharge.	-
5	01 outlet in Beant Memorial	Water logging	-	This is major work and will be completed by August, 2019.
6	sector 52 (starting)	Two outlets discharging Sewage Water	-	Municipal Corporation Chandigarh will plug the discharge within 10 days i.e. 18.12.18
7	sector 52 (End)	Two outlets discharging Sewage Water	-	Municipal Corporation Chandigarh will plug the discharge within 10 days i.e. 18.12.18
8	One outlet coming from Sec 51	Sewage Water	Already tapped.	-

STATUS OF TREATED WASTE WATER FROM STPs DISCHARGE INTO RIVER GHAGGAR

At present five Sewage Treatment Plants are **operational** in Chandigarh as per detail given below.

Sr. No.	Location of STP	Capacity
1.	Diggian	30 MGD (1.36,200 KLD)
2.	3 BRD	11 MGD (49,940 KLD)
3.	Raipur Kalan	5 MGD (22,700 KLD)
4.	Raipur Khurd	1.25 MGD (5,675 KLD)
5.	Dhanas	1.6 MGD (7,264 KLD)

Chandigarh Smart City Limited is in process for **upgradation** of below 05 STPs to treat the waste water upto the level of 5 mg/l BOD and also in the process for setting up of new STPs as per detail given below.

Sr. No.	Location of STP	Capacity	Action Plan
1.	Diggian	30 MGD (1,36,200 KLD)	Will be upgraded to treat the waste water upto the level of 5 mg/l BOD by **Nov. 2022**
2.	3 BRD	11 MGD (49,940 KLD)	Will be upgraded to treat the waste water upto the

			level of 5 mg/l BOD by Nov. 2022
3.	Raipur Kalan	5 MGD (22,700 KLD)	Will be upgraded to treat the waste water upto the level of 5 mg/l BOD by Nov. 2022
4.	Raipur Khurd	1.25 MGD (5,675 KLD)	Will be upgraded to 2.0 MGD Capacity and to treat the waste water upto the level of 5 mg/l BOD by Nov. 2022
5.	Dhanas	1.6 MGD (7,264 KLD)	Will be upgraded to treat the waste water upto the level of 5 mg/l BOD by Nov. 2022

02 Nos. new Sewage Treatment Plants are **under construction.**

Sr. No.	Location of STPs	Capacity	Remarks	Timelines
1.	Maloya	5 MGD (22,700 KLD)	Constructed by Municipal Corporation, Chandigarh	Will be operational by 31st January 2019
2	Raipur Kalan	1.25 MGD (5,675 KLD)	Constructed by Engineering Department, Chandigarh Administration.	Not provided

Further, 01 No. new Sewage Treatment Plant is **proposed.**

Sr. No.	Location of STPs	Capacity	Remarks	Timelines
1	Kishangarh near Sukhna Lake	2.0 MLD (2,000 KLD)	As informed by Chandigarh Smart City Limited	Will be Completed by November 2022

However it was informed by Sh. Vivek Pandey that some of the STPs are not meeting with the prescribed norms (Designed criteria). Chairman told the Municipal Corporation and Engg. Deptt., Chd. Admn. to look into the matter immediately and to ensure that all the waste water treated from STPs should meet with prescribed norms otherwise responsibility will be fixed and suitable action would be taken. Following decisions were also taken during meeting :

1. Action Plan as prepared above should be complied by all the respective deptt.
2. One Seminar will be conducted by Municipal Corporation Chandigarh in association with Health department and CPCC to aware/sensitize the public regarding ill effects and penal provisions w.r.t. illegal discharge of waste water into drains/Choes.
3. During next sampling CPCC will inform MCC and Engg. Deptt., Chd. Admn. So that they can also take samples simultaneously if they want.
4. SDO (Bldg.) will provide the list of industrial plots, by 17.12.18, who have not taken sewerage connection till date.

5. Health Deptt. will conduct health camp in the month of December also.
6. Municipal Corporation will provide the information related to ground water extraction as required by CPCC by 17.12.18.

The meeting ended with a vote of thanks to the Chair.

Annexure-VII

Monthly Status Report for October w.r.t. O.A. No. 138 of 2016 and O.A. No. 139 of 2016 titled Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu case)

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It is submitted that Hon'ble National Green Tribunal, Principal Bench, New Delhi has passed an order dated 7th August, 2018 **(flag 'A')** vide which it is informed that proceedings in the matter O.A. No. 138 of 2016 and O.A. No. 139 of 2016 titled Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu case) were initiated before the Tribunal on a reference received from the National Human Right Commission (NHRC). The NHRC took Suo-Motu action on the basis of a news item appearing in The Tribune, dated 12.05.2014 under the caption "Stench Grips Mansa's Sacred Ghaggar River" to the effect that the river Ghaggar had turned into a polluted water body on account of discharge of effluents – industrial as well as municipal.

In pursuant to the order of Tribunal dated 09.12.2016, a joint inspection has been carried out by the representatives of the Central Pollution Control Board, Punjab State Pollution Control Board, Haryana Pollution Control Board, Himachal Pradesh State Pollution Control Board. Officials of Union Territory, Chandigarh also joined the said inspection team. Further, as per report, submitted by the concerned Pollution Control Boards to the NHRC as well as Minutes of the meetings on various dates in which the respective States participated. The joint analysis report of the joint monitoring of river Ghaggar samples has also been filed. The findings of the joint inspection report are that values of various parameters such as BOD, TSS, Faecal Coliform, Lead and Iron were beyond permissible limits at most of the locations in Himachal Pradesh, Haryana, Punjab and Chandigarh.

The Chief Secretaries of the States of Himachal Pradesh, Haryana, Punjab and also the Administrator of U.T., Chandigarh have been directed to constitute Special Task Force (STFs) comprising of District Magistrate, Superintendent of Police, Regional Officer of the State Pollution Control Board in concerned District and one person to be nominated by the District Judge in every District in his capacity of Head of the District Legal Services Authority. Such STF may identify persons responsible for violation of law so that action can be taken. At the State Level, the STF will comprise of the Chief Secretary, Secretary Environment, Secretary of Urban Development and Secretary of Local Body. The District Level Special Task Force will submit a monthly action taken report to the State Level Task Force and State Level Special Task Force will furnish 3 monthly report or the action taken to the Central Pollution Control Board

An Executive Committee was also constituted by Hon'ble NGT (as per para 8 of the order) under the Chairmanship of Justice Pritam Pal, Former Judge, Punjab and Haryana High Court. A preliminary meeting of the representatives of all the State/UT was held on 31.08.2018, in which, the issue of constitution of Special Task Force (STF) in compliance of the above referred order of the Hon'ble NGT was also discussed (para 6 of the order).

		(placed **at Annexure-III**)
6	CPCC will provide the quality of drains at entry/exit points.	CPCC has provided the Data in 2nd meeting (placed **at Annexure-IV**).
7	MC, Chd. will provide the details of discharge points at Patiala kiRao and provide the action plan for stoppage of the same.	Not provided by Municipal Corporation, Chandigarh
8	MC, Chd. will identify the people who have laid down illegal pipelines and discharging waste water into storm water drainage system/drains and Public Notice shall be given by the CPCC in this regard	Not provided by Municipal Corporation, Chandigarh

The second meeting of District Level Special Task Force was held on 11.10.2018. The detail of decisions taken in the said meeting and action taken on the decisions are given as under:-

Sr. No.	Decision taken in the meeting	Action taken report
1	The points through which the waste water is being discharged directly into the N-choe should be closed within 15 days by the M.C.	No reply was received from Municipal Corporation, Chandigarh
2	The draft of action plan will be given by the Environment Deptt. to the Municipal Corporation by today and thereafter the action taken report will be submitted by the Municipal Corporation within todays.	Format for Action Plan has been provided to both Agencies but Action Plan has not been received.
3	The pipeline laid down illegally by the road side vendors near the N-choe should be closed by the M.C. within 3-4 days.	No reply has been received.
4	Advertisement should be given by the M.C. in which the team is going for removal of pipeline laid down illegally in the area under the Chandigarh jurisdiction by the roadside vendors near the N-choe.	No intimation was provided by Municipal Corporation, Chandigarh

Thereafter, meeting of all the concerned Head of Departments alongwith their Nodal Officers as well as State Level Special Task Force and District Level Special Task Force was held on 22nd October, 2018 under the Chairmanship of Justice Pritam Pal, Chairman, Executing Committee.

As per the directions of Executing Committee reply has been filed by the Municipal Corporation, Chandigarh w.r.t. Solid Waste Management and Waste Water discharge however no reply from Engineering Department, Chandigarh Administration (which is managing some areas of drains & STPs)

and Chandigarh Smart City Limited (which is going to upgrade existing STPs & setting up of new STPs).

Sub:- Interim monthly Status Report for Nov w.r.t. O.A. No. 138 of 2016 and O.A. No. 139 of 2016 titled Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu case)

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Interim report regarding progress on the points discussed earlier is as follows:

Sr. No.	Decision taken in the meeting	Action taken report
1	Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration will upgrade the existing STPs/set up new STPs in their respective jurisdiction to meet with the standards directed by CPCB/CPCC and action plan in this regard alongwith timeline will be submitted within 15 days.	Action Plan has been submittedby Municipal Corporation on 06.11.2018
2	The officers of Chandigarh Pollution Control Committee (CPCC), Engineering Department Chd. Admn. and Municipal Corporation, Chd. have identified the 10 points where sewerage water is discharged without treatment into SukhnaChoe. Municipal Corporation, Chandigarh and Engineering Department, Chandigarh Administration will take measures to tap these points to ensure that no untreated waste water release into SukhnaChoe. Status report in this regard will be submitted by the M.C. within 15 days.	Reply submitted by Municipal Corporation, Chandigarh & Engineering Department, Chandigarh Administration is placed at **Annexure-I & II**.
3	Prior intimation shall be given by the CPCC to the Police Deptt. for providing police protection to the officers for carrying out inspection and deputing the beat cops with the team.	Action will be taken whenever required.
4	Municipal Corporation, Chandigarh will provide the list of industrial plots who have not taken sewer connection.	To be provided by SDO Building branch who grants permission for sewerage connection on completion of building
5	Points where waste water is being discharged into N-Choe to be identified in the coming time	CPCC has provided the list of points where waste water is being discharged into N-Choe in 2nd meeting (placed **at Annexure-III**)

		7 points of discharge into N-Choe have been plugged. Only one at Beant Memorial is left now, estimate of approx. 3 crores, for the same is being prepared. 9 Months time is required for the same.
6	CPCC will provide the quality of drains at entry/exit points.	CPCC has provided the Data in 2nd meeting (placed **at Annexure-IV**).
7	MC, Chd. will provide the details of discharge points at Patiala kiRao and provide the action plan for stoppage of the same.	Sewerage treatment plant to tap the discharge points is in commissioning stage and all the discharge points will be tapped in next three months.
8	MC, Chd. will identify the people who have laid down illegal pipelines and discharging waste water into storm water drainage system/drains and Public Notice shall be given by the CPCC in this regard	The sullageidentified as coming through the standpostsstands plugged.
9	The points through which the waste water is being discharged directly into the N-choe should be closed within 15 days by the M.C.	Complied as detailed in S.No. 5 above
10	The draft of action plan will be given by the Environment Deptt. to the Municipal Corporation by today and thereafter the action taken report will be submitted by the Municipal Corporation within todays.	Action plan has been received.
11	The pipeline laid down illegally by the road side vendors near the N-choe should be closed by the M.C. within 3-4 days.	Needful has been done.
12	Advertisement should be given by the M.C. in which the team is going for removal of pipeline laid down illegally in the area under the Chandigarh jurisdiction by the roadside vendors near the N-choe.	Needful has been done.

Minutes of 1st Meeting of State Level Special Task Force held on 19th December, 2018 under the Chairmanship of Worthy Advisor to the Administrator in compliance to the Hon'ble NGT order dated 07.08.2018 in the matter of OA No. 139 of 2016 titled Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu Case) and Yogender Kumar.

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1st Meeting of State Level Special Task Force was held on 19th December, 2018 under the Chairmanship of Worthy Advisor to the Administrator in U.T., Secretariat, Sector 9, Chandigarh to discuss the report submitted by District Level Special Force in compliance to the Hon'ble NGT order dated 07.08.2018 in the matter of OA No. 139 of 2016 titled Stench Grips Mansa's Sacred Ghaggar River (Suo-Motu Case) and Yogender Kumar. The list of officials who attended the meeting is enclosed as Annexure-I.

The Chairman welcomed all the Members of State Level Special Task Force as well as officers of Chandigarh Administration. Thereafter the Member Secretary, State Level Special Task Force informed the members about the order of Hon'ble NGT and constitution of Executing Committee, District level Special Task Force and State Level Special Task Force. He further informed that District Level Special Task Force has conducted three meeting and submitted the report to State Level Special Task Force. Accordingly, all the information has been compiled and shown to the members in the form of Power Point Presentation. During presentation, Member Secretary informed about the status of waste water discharge and other related issues. He further informed that water supply in Chandigarh was coming from Bhakra main line through Kajouli and Sector 39 Water Works. Around 67 MGD water is being supplied from this and 22 MGD water is being supplied through tubewells. Total around 89 MGD is being supplied daily to Chandigarh and as per the information provided by Municipal Corporation, Chandigarh total waste water generation is around 58 MGD and treatment capacity is 48.85 MGD. At present 05 Nos. of Sewage Treatment Plants are operational in Chandigarh.

Thereafter, members were apprised of status of waste water discharge points at Sukhna Choe and N-Choe and action taken along with Action plan to stop the same as per details given below :-

Sr. No.	Point	Status as on September 2018	Status as on 07.12.2018	Status as on 19.12.2018	Long Term/Short Term Action Plan
1	Kishangarh Outlet	There is sewage water discharge from the outlet.	As a short term measure proposal has been submitted to lift the waste water and connect it with sewerage line	-	STP has been proposed to treat the waste water (Will be commissioned by Nov. 2022)
2	Outlet of Village Kishangarh inside Forest Nursery	There is sewage water discharge from the outlet.	Still sewage is being discharged	-	Chandigarh Administration will tap the same by 31.03.2019.
3	Outlet of Shastri Nagar	There is sewage water discharge.	Sewage water has been tapped.	-	-
4	First outlet of Bapu Dham near bridge on the road connecting IT park with Sector 26, Chandigarh	There is sewage water discharge at first outlet of Bapu Dham near bridge on the road connecting IT Park	Leakage has been plugged.	Leakage has been plugged	-
5	Second outlet of Bapu Dham Colony (Known as Madrasi Colony)	There is sewage water discharge at second outlet of Bapu Dham colony	The slum residents have constructed their toilets on the existing CBD. Matter has now been taken up with Estate Office, U.T. Chandigarh for removal of encroachment on the CBD at	All such discharges points have been plugged	-

			Bapu Dham Colony, so that flow coming into Choe may be plugged.		
6	Outlet from back of Gaushala, Industrial Area, Phase-I, Chd.	There is substantial sewage discharge from back of Gaushala, Industrial Area, Phase-I, Chd.	-	Municipal Corporation Chandigarh has plugged the discharge points	-
7	Outlet near CTU workshop Industrial Area, Phase-I, Chd. (Inside Forest Area)	There is sewage discharge at the outlet near CTU workshop.	CTU has plugged the waste water flow. Now there is no waste water discharge.	-	-
8	Indl. Area, Phase - I, Colony No. 4.	There is discharge from many outlets from Indl. Area, Phase - I, Colony No. 4.	Waste water has already been tapped and diverted to sewer line.	-	-
9	Pump House operated by Municipal Corporation behind Central Poultry Development Organization, Indl. Area, Phase - I, Chandigarh.	In case of Non-operation of pump, waste water directly goes to Sukhna Choe on regular basis.	New stand by motor has already been installed and now no waste water is being discharged into Sukhna Choe.	-	-
10	Outlet of Village Hallomajra	There is substantial sewage discharge from the outlet of	Around 70% of household have been connected to sewer line and	All the household will be connected to sewer line within time	By 31.01.2019 all the household will be connected to

		Village Hallomajra.	for remaining 30% work is under process.	line.	sewer line.
11	Village Daria	There is discharge of sewage water from Village Daria	Excess sewage of unauthorised colony in village Daria has been tapped and put in the sump and the same is being pumped into the sewer line.	-	-

Status of N-Choe

Sr. No.	Point	Status as on September 2018	Status as on 07.12.2018	Status as on 19.12.2018	Action Plan/Action Taken
1	leisure valley	02 outlets are discharging waste water	Outlets have been plugged. Now there is no waste water discharge.	-	-
2	Near red cross (Madhya Marg)	01 outlet discharging waste water	Outlet has been plugged. Now there is no waste water discharge.	-	-
3	Sec 23 near B.D Hospital (Neuro Psychiatry)	01 outlet discharging waste water	Outlet has been plugged. Now there is no waste water discharge.	-	-

4	Bal Bhawan side	Very less discharge	Outlet has been plugged. Now there is no waste water discharge.	-	-
5	01 outlet in Beant Memorial	Water logging	-	-	This is major work and will be completed by August, 2019.
6	Sector 52 (starting)	Two outlets discharging Sewage Water	-	-	(related with Sr. No. 5) Will be plugged by 31.12.2019
7	Sector 52 (End)	Two outlets discharging Sewage Water	-	-	One outlet has been plugged and another outlet will be plugged by 31.12.2019.
8	One outlet coming from Sec 51	Sewage Water	Already tapped.	-	-

The Member Secretary also informed that the status of existing STPs, under construction STPs and proposed STPs. It was also informed that Chandigarh Smart City Ltd. is going to upgrade existing STPs to treat the waste water upto the level of less than 5 mg/l BOD and the work will be completed by Nov. 2022. The details of STPs are given as under:-

Existing STPs Operational in Chandigarh:-

Sr. No.	Location of STP	Capacity
1.	Diggian	30 MGD (1,36,200 KLD)
2.	3 BRD	11 MGD (49,940 KLD)
3.	Raipur Kalan	5 MGD (22,700 KLD)
4.	Raipur Khurd	1.25 MGD (5,675 KLD)
5.	Dhanas	1.6 MGD (7,264 KLD)

Sewage Treatment Plants **under construction:-**

Sr. No.	Location of STPs	Capacity	Remarks	Timelines
1.	Maloya	5 MGD (22,700 KLD)	Constructed by Municipal Corporation, Chandigarh	Will be operational by 31.01.2019
2	Raipur Kalan	1.25 MGD (5,675 KLD)	Constructed by Engineering Department, Chandigarh Administration.	Will be operational by 30.06.2019.

Proposed Sewage Treatment Plant:-

Sr. No.	Location of STPs	Capacity	Remarks	Timelines
1	Kishangarh near Sukhna Lake	2.0 MLD (2,000 KLD)	As informed by Chandigarh Smart City Limited	Will be Completed by November 2022

Advisor to the Administrator appreciated the action taken on Short Term Plans and advised for continuous monitoring on Long Term Plan. He further suggested that the Municipal Corporation, Chandigarh should explore setting up of localised Sewage Treatment Plants in existing colonies. Commissioner, Municipal Corporation informed that Sewage Treatment Plant of Maloya is now ready and under commissioning stage.

Advisor to the Administrator also directed that if there is any discharge found other than the above points, the same should be stopped immediately.

Member Secretary informed that presently some of the STPs are not running up to the mark and even fail to achieve the designed level of BOD i.e. 30 mg/l. Advisor directed all concerned to look into the matter and to take appropriate action so that all STPs meet the prescribed norms. Sh. Sanjay Arora, Suptt. Engineer, Public Health Chandigarh Admn. informed that gap between the treatment capacity and waste water generation is not correct projection as water loss during transmission has not been accounted for. Thereafter Advisor directed him to provide the exact figures to CPCC so that same can be incorporated in Action Plan to be forwarded to Executing Committee.

Advisor also desired to call Chief Architect, Chandigarh Administration as Special Invitee from next meeting onwards.

The Member Secretary informed the committee about the Industrial Scenario in Chandigarh, Bio-Medical Waste Management, Municipal Solid Waste

Management in Chandigarh, Hazardous Waste Management, Plastic Waste Management and E-Waste Management in Chandigarh, which is being carried out as per the prescribed rules.

District Commissioner, Chairman of the District Level Task Force complimented the Engg. Department of U.T. Admn. and Municipal Corporation for speedy action in stopping the waste water discharge in Sukhna Choe and N-Choe. Advisor also appreciated the efforts of both the Engg. wings and directed to ensure continuous compliance of orders of Hon'ble NGT. The Committee discussed and approved the Action Plan with Timeline of upgradation of existing STPs and setting up of new STPs as well as stopping of discharge of waste water into drains.

The meeting ended with thanks to the Chair.

Test Results of Industries

Annexure - VIII

Sr No.	Name of the Unit	Address	Process ↓ Permissible Limit	PARAMETERS							STATUS
				pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)	NH_3-N (mg/l)	PO_4-P (mg/l)	O& G (mg/l)	
				5.5-9.0	600	...	350	50	....	20	
1	A.B. MOTORS	Plot No. 53, Indl. Area Ph-II, Chd	Service Station	7.50	13	114	38	2.48	0.22	<1	Complied
2	KLG Enterprises (Hotel KLG)	Plot No. 51, Indl. Area Ph-II, Chd	Hotel	7.18	10	58	29	0.37	0.03	<1	Complied
3	Krishna Automobiles	Plot No. 177-E, Indl. Area Ph-I, Chd	Service Station	7.31	189	219	111	3.60	0.39	2.5	Complied
4	Em Pee Motors Ltd.	Plot No. 177-H, Indl. Area Ph-I, Chd	Service Station	7.17	80	276	50	3.60	0.28	3.5	Complied
5	Rock & Storm Bottlers Pvt. Ltd.	Plot No. 214, Indl. Area Ph-I, Chd	Bottling Plant	6.31	59	13800	6750	2.91	0.19	1.3	Non-Complied
6	Kujjal Builders Hotel (The Lalit)	RGCTP, Kishangarh	Hotel	7.56	187	495	123	6.34	0.50	<1	Complied
7	DLF Info City Developers (Chandigarh) Ltd	PLOT NO. 2, RGCTP, Kishangarh	IT Industry	7.03	20	59	31	6.34	6.02	<1	Complied
8	Infosys Limited	PLOT NO.1, RGCTP, Kishangarh	IT Industry	7.14	12	66	23	45.12	2.09	<1	Complied
9	Tech Mahindra Ltd.	PLOT NO.23 (SEZ) PH-II, RGCTP, Kishangarh	IT Industry	7.37	35	79	42	37.67	3.92	1	Complied
10	Punjab State Co-op. Milk Producer's Fed Ltd. (Milk Plant	Indl. Area, Ph-I, Chd.	Milk Plant	8.14	116	153	56	2.48	1.78	2.3	Complied
11	Freaking Amazing Foods Pvt. Ltd.	SCO 32, Sec 26, Chd	Micro Brewery	6.95	17	13	4	1.85	0.27	<1	Complied
12	Lemon Tree Hotels	Plot No. 3 (MW), Indl. Area Ph-I, Chd	Hotel	7.90	109	375	165	38.72	2.04	<1	Complied
13	Hind Inns & Hotels Ltd.	Plot No. 15, Indl. Area Ph-I, Chd	Hotel	7.15	15	64	18	18.90	1.23	<1	Complied
14	PASCO Motors	Plot No. 2, Indl. Area Ph-I, Chd	Service Station	7.05	17	88	21	3.85	0.32	1.1	Complied

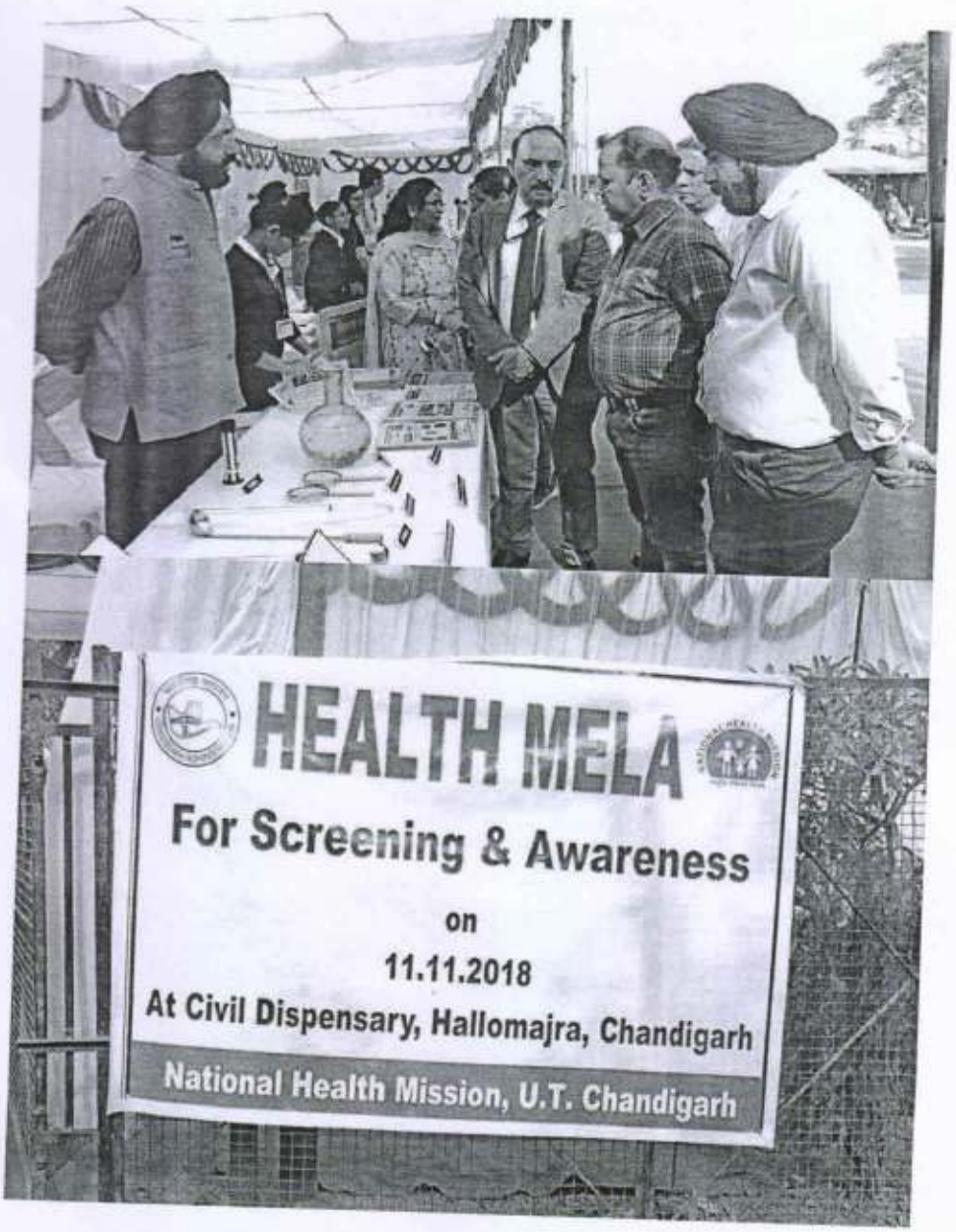
Sr No.	Name of the Unit	Address	Process ↓	PARAMETERS							STATUS
				pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)	NH_3-N (mg/l)	PO_4-P (mg/l)	O& G (mg/l)	
			Permissible Limit	5.5-9.0	600	...	350	50	....	20	
15	Charisma Goldwheels	Plot No. 7, Indl. Area Ph-I, Chd	Service Station	6.95	112	223	63	3.00	0.41	1.8	Complied
16	Sterling Mobikes Pvt. Ltd.	Plot No. 167, Indl. Area Ph-I, Chd	Service Station	7.10	8	36	11	1.51	0.56	<1	Complied
17	Lally Motors Ltd.	Plot No. 6, Indl. Area Ph-I, Chd	Service Station	7.05	173	247	71	3.42	0.64	1.3	Complied
18	G.M.P. Motors	Plot No. 128, Indl. Area Ph-I, Chd	Service Station	7.05	13	106	45	4.88	0.38	<1	Complied
19	Modern Automoblies	Plot No. 4 (MW), Indl. Area Ph-I, Chd	Service Station	6.95	30	127	36	5.05	0.4	<1	Complied

Test Results of Industries

Sr No.	Name of the Unit	Address	Process ↓ PERMISSIBLE LIMIT →	PARAMETERS																STATUS
				pH	TSS (mg/l)	COD (mg/l)	BOD (mg/l)	NH_3-N (mg/l)	PO_4-P (mg/l)	O& G (mg/l)	Al (mg/l)	Cu (mg/l)	Zn (mg/l)	Cd (mg/l)	Pb (mg/l)	Ni (mg/l)	Total Cr (mg/l)	Sn (mg/l)	Ag (mg/l)	
				6.0-9.0	100	....	....	50	5	10	5	3	5	2	0.1	3	2	2	...	
1	Khanna Sanitations Pvt.Ltd	Plot No. 121, Indl. Area Ph-I, Chd	Electroplating	8.50	486	....	....	2.74	0.29	1.3	<1	0.103	<0.1	0.016	<0.1	<0.5	0.515	BDL	BDL	COMPLIED
2	H.S.Fastners	Plot No. 316, Indl. Area Ph-I, Chd	Electroplating	8.25	205	....	....	7.02	0.55	<1	<1	0.113	0.192	0.017	<0.1	<0.5	<0.5	BDL	BDL	COMPLIED
3	Groz Beckert Asia Pvt.Ltd	Plot No. 177-A, Indl. Area, Ph-I, Chd.	Electroplating	8.89	118	....	....	5.43	0.03	<1	<1	<0.1	<0.1	<0.01	<0.1	<0.5	1	BDL	BDL	COMPLIED
4	Deepak Fasteners	136-140/57 Indl. Area Ph-I, Chd	Electroplating	9.60	179	....	....	10.65	0.03	<1	<1	0.114	0.182	<0.01	<0.1	0.95	3.153	BDL	BDL	NON-COMPLIED
5	Srijan Exports	Plot No. 280, Indl. Area Ph-I, Chd	Electroplating	2.90	38	204	47	6.42	0.23	<1	<1	<0.1	30.4	0.066	0.76	449	12.8	BDL	BDL	NON-COMPLIED
6	Thapar Industries	Plot No. 335, Indl. Area Ph-I, Chd	Electroplating	7.50	190	266	59	3.25	0.30	<1	<1	<0.1	57.9	0.023	<0.1	<0.5	<0.5	BDL	BDL	NON-COMPLIED
7	S.G.Industries	Plot No. 3106, Indl. Area Ph-II, Chd	Electroplating	6.80	200	....	....	47	0.80	<1	<1	<0.1	0.195	<0.01	<0.01	<0.5	<0.5	BDL	BDL	COMPLIED

Annexure :- Ty


HEALTH DEPARTMENT CHANDIGARH
under guidance of National Green Tribunal
is organising a
HEALTH AWARENESS & CHECK UP CAMP
at
CIVIL DISPENSARY, HALLOMAJRA, Chandigarh
on 11th, NOVEMBER, 2018
9:00 A.M. TO 2:00 P.M.
NATIONAL HEALTH MISSION


HEALTH MELA
For Screening & Awareness
on
11.11.2018
At Civil Dispensary, Hallomajra, Chandigarh
National Health Mission, U.T. Chandigarh