ACTION PLAN FOR

RIVER GHAGGAR

31.01.2019

(OA No. 673 of 2018-"More river stretches are critically polluted now:CPCB")

Government of Haryana

Index

1. INTRODUCTION

1.1 Order of the Hon'ble NGT dated 20.09.2018 in the matter of O. A No. 673 of 2018 - "More river stretches are critically polluted now: CPCB"

In the matter of OA No. 673 of 2018-"More river stretches are critically polluted now: CPCB", the Hon'ble NGT has passed order dated 20.09.2018 for constitution of River Rejuvenation Committee (RRC) and Special Environment Surveillance Task Force (SESTF). It has been mandated to prepare Action Plan for River Stretches and make them pollution free. In compliance of the orders of the Hon'ble NGT, the State Goverment has constituted RRC. In the order dated 20.09.2018, the Hon'ble NGT has directed to constitute Special enviironment Surveillance Task Force on the pattern of the order dated 07.08.2018 in matter of OA No. 138 of 2016- Stench Grips Mansa's Sacred Ghaggar River (Suo-Moto case). The Hon'ble NGT has further directed vide order dated 19.12.2018 that the Action Plan to be prepared by 31.1.2019 and submitted to the CPCB.

1.2 The matter of OA No. 138 of 2016- Stench Grips Mansa's Sacred Ghaggar River (Suo-Moto case)

OA No. 138 of 2016- Stench Grips Mansa's Sacred Ghaggar River (Suo-Moto case) is pending before the Hon'ble NGT regarding pollution problem in river Ghaggar. This case was taken up suo-moto by the Hon'ble National Human Right Commission, New Delhi in 2014 and was transferred to NGT in 2016. In its order dated 07.08.2018, the Hon'ble NGT has observed that the authorities especially the Pollution Control Boards have failed to perform their duty inspite of having adequate powers. In the disappointing scenario the Executing Committee has been formed by the Hon'ble NGT comprising of:-

1. Justice Pritam Pal, Former Judge, Punjab and Haryana High Court, Chairman.
2. Dr. Vimal K Hatwal, Joint Director, MOEF, Chandigarh, Member.
3. Sh. J. Chandra Babu, Scientist-D, CPCB, Delhi, Member.

Incompliance of the order dated 07.08.2018 the State Government vide its order dated 29.08.2018 **(Annexure-1)** constitited State Level Special Task Force and District Level Special Task Force comprising of the following:-

State Level STF

1. Chief Secretary
2. Administrative Secretary, Environment Department
3. Administrative Secretary, Town and Country Planning Department
4. Administrative Secretary, Urban Local Bodies Department

District Level STF

1. Deputy Commissioner of the concerned District
2. Superintendent of Police of the concerned District
3. Regional Officer, HSPCB of the concerned District
4. Representative of the District Judge of the concerned District

The STF is to prepare action plan and the restore the water quality in the river upto prescribed level. The District Level Task Force has to submit monthly report to State Level STF and the State Level STF has to submit quarterly report to CPCB for onward submission to Executing Committee. The Executing Committee is to monitor the progress on fortnightly basis. The Special Task Force has ordered to identify the persons responsible for violations of law and file criminal cases against them.

The State of Haryana took a series of steps to religiously implement the directions of Hon'ble NGT. Accordingly a series of meetings were held at the level of Chief Secretary of Government of Haryana and other senior officials with the administrative Secretaries and senior officials of various stakeholder Departments including Irrigation, Public Health, Urban Local Bodies, Environment, State Pollution Control Board and Town and Country Planning. Accordingly, the following plan has been finalized at State level, including short and long term actions, with specific time frames, as identified by the agencies concerned.

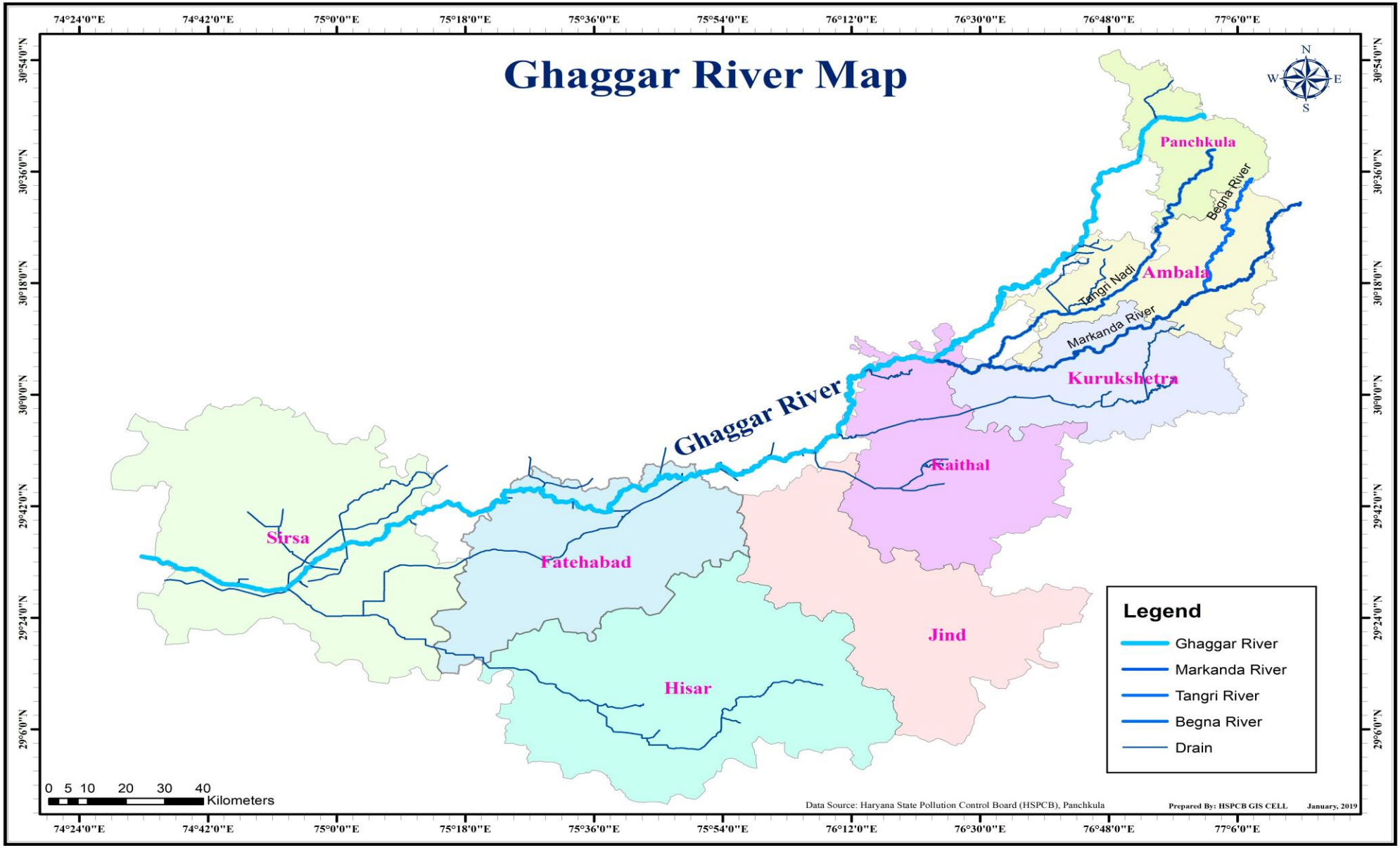
1.3 Objective of the Action Plan

The objective/goal of the action plan is that the quality of river water should meet with the required value as given under:-

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

2.0 The River Ghaggar

The River Ghaggar originates in Sirmour District of Himachal Pradesh and travels a length of 320 KM through the State of Haryana, Punjab & Rajasthan. It enters the territory of Haryana in Panchkula District near Kalka. It passes through the district Panchkula to Mohali in Punjab. Then again it enters in Ambala and then re-enters into district Patiala in Punjab. It again enters in Haryana in Kaithal district and then crosses to Sangrur district. It again enters in Fatehabad district and crosses to Mansa district and re-enter in Haryana in Sirsa district and finally enter in Hanumangarh district of Rajasthan.


Ghaggar River Map
74°24'0"E
74°42'0"E
75°0'0"E
75°18'0"E
75°36'0"E
75°54'0"E
76°12'0"E
76°30'0"E
76°48'0"E
77°6'0"E
30°54'0"N
30°36'0"N
30°18'0"N
30°0'0"N
29°42'0"N
29°24'0"N
29°6'0"N
N
W
E
S
Panchkula
Begna River
Tangri Nadi
Ambala
Markanda River
Kurukshetra
Ghaggar River
Kaithal
Sirsa
Fatehabad
Jind
Hisar
Legend
Ghaggar River
Markanda River
Tangri River
Begna River
Drain
0 5 10 20 30 40
Kilometers
Data Source: Haryana State Pollution Control Board (HSPCB), Panchkula
Prepared By: HSPCB GIS CELL
January, 2019

2. 1 Main Sources of Pollution in River Ghaggar

The River Ghaggar as well as the major drains outfalling into the river is being monitored regularly by the State Pollution Control Boards (SPCB) at different locations. The Biochemical Oxygen Demand (BOD) level does not conform to the prescribed norms at many points and the river shows fluctuations in dissolved oxygen (DO) levels from 'Nil' to 'above saturation' levels, thereby indicating the presence of organic pollution load and prevalence of eutrophic conditions. The quality of river starts degrading after the injection of treated effluent from STP at Sector-28, Panchkula and is in the range of 10-20 mg/l till the Sukhna Choe joins river Ghaggar. Thereafter, the River Water quality remains badly polluted through out the length of the river when it criss-cross the boundary of State of Haryana and Punjab. The river is highly polluted after the discharge from the Sagar para Drain (Sarswati Drain) and the BOD value is in the range of approx. 60-100 mg/l. The water quality of stretches of River Ghaggar are shown in table enclosed at **Annexure-2**. The Board has also issued directions and started conducting micro-biological test to analyse the limit of Faecal Coliform and shall be part of all analysis reports subsequent to February, 2019. Similarly, the value of Dissolved Oxygen (DO) shall also be analysed.

2.2 Major drains of River Ghaggar in Haryana

There are 11 major drains, i.e. Sukhna Nallah, Jatton Wala Nallah, STP Panchkula, MDC Drain, Sukhna Choe, Ambala Drain, Ghail drain, Markanda River, Sagarpara (Saraswati) Drain, Kaithal Drain and Ratia Drain falling out in River Ghaggar in the State of Haryana. The water quality of all the drains is regularly being monitored by HSPCB and the water quality status is shown in the table enclosed at **Annexure-3.** All the Drains carry effluent with BOD value exceeding the desired limits. The most polluting drain of the Haryana is Sagra Para Drain (Saraswati Drain) and it carries effuent having BOD more than 100 mg/l.

2.3. Measurement of Flow Rate in the Drains joining River Ghaggar

The details of flow of water in the eleven drains outfalling in river Ghaggar and the quality of water, as measured by Irrigation Department and HSPCB are given as below.

Statement of flow of drains outfalling directly/indirectly into river Ghaggar

Sr. No.	Drains meeting with river Ghaggar	Flow (MLD) as on July, 2018	Flow (MLD) as on Aug, 2018	Flow (MLD) as on Sept., 2018	Flow (MLD) as on Oct., 2018	Flow (MLD) as on Nov., 2018	Flow (MLD) as on Dec., 2018	Flow (MLD) as on Jan., 2019
1	Sukhana Nallah	5	3.9	6.3	4.7	-	3.67	3.3
2	Jattan walla Nallah	17.1	19.6	29.4	21	-	19.6	20.09
3	Discahrge of STP, Sec-28, Panchkula at Vill- Kakrali, Punjab.	8	9	9.8	8.57	-	7.35	7.96
4	MDC Drain of Panchkula entering	24	20	22	20.8	-	19.6	18.6

Sr. No.	Drains meeting with river Ghaggar	Flow (MLD) as on July, 2018	Flow (MLD) as on Aug, 2018	Flow (MLD) as on Sept., 2018	Flow (MLD) as on Oct., 2018	Flow (MLD) as on Nov., 2018	Flow (MLD) as on Dec., 2018	Flow (MLD) as on Jan., 2019
	to Sukhna Nallah							
5	Sukhna choe at Vill-Bhankarpur, Punjab	49	45	47.5	46.5	-	39.2	41.6
6	Ambala Drain	-	-	-	24.46	-	-	-
7	Ghail drain at Rampur, Ambala	24.5	19.6	24.5	23	-	18.13	18.6
8	Markanda River at Vill. Dhandhota	-	-	-	-	-	-	26.30
9	Sagar Para Drain at Vill. Sagra	-	-	-	-	-	-	24.4
10	Kaithal drain at Vill. Khanauri	-	156	535	86	115.62	103.75	84
11	Discharge of M.C. Ratia (Fatehabad)	-	-	-	-	-	-	4.6

3. Estimation of sewage in towns in catchment of river Ghaggar.

There is a gap in treatment capacity of 20.3 MLD in Ambala, 0.9 MLD in Jakhal Mandi and 18.8 in Thanesar and 2.9 MLD in Sirsa Town as in Year 2019. But the STPs in these towns are already under construction or proposal stage. There is no gap in treatment capacity of sewage in rest of the towns. There is also a gap as per proposed polulation upto year 2040 in Ambala, Narwana, Kalka Towns but this shall be covered up by installation of STPs in coming years. The estimation for generation of sewage for population upto year 2040 and the gap in treatment capacity is given in the table.

Sr. No.	Name of Town	Present Population 2019	Projected Population for the year 2040	Treatment Capacity (in MLD)				Capacity required in 2019	Gap in 2019	Capacity required in 2040	Gap in 2040
				Existing	Under Construction	In planning stage	Total				
1.	Naraingarh	27499	34649	**3**	**0**	**1**	**4**	**3**	**0**	3.7	-
2.	Ambala	549050	691803	**39**	**29**	**0**	**68**	**59.3**	**20.3**	74.7	6.7
3.	Ratia	41610	52429	**6.5**	**5**	**0**	**11.5**	**4.5**	**0**	5.7	-
4.	Tohana	71536	90135	**10**	**0**	**0**	**10**	**7.7**	**0**	9.7	-
5.	Jhakal Mandi	8723	10991	**0**	**3**	**0**	**3**	**0.9**	**0.9**	1.2	-
6.	Fatehabad	100160	126202	**25**	**0**	**0**	**25**	**10.8**	**0**	13.6	-
7.	Hisar	343867	433272	**70**	**12**	**0**	**82**	**37.1**	**0**	46.8	-
8.	Narnaund	19311	24332	**4**	**0**	**0**	**4**	**2.1**	**0**	2.6	-
9.	Narwana	69541	87622	**9.25**	**0**	**0**	**9.25**	**7.5**	**0**	9.5	0.25
10.	Uchana	18833	23730	**3.5**	**0**	**0**	**3.5**	**2**	**0**	2.6	-
11.	Jind	187703	236506	**30**	**14**	**0**	**44**	**20.3**	**0**	25.5	-
12.	Safidon	38895	49008	**9**	**0**	**0**	**9**	**4.2**	**0**	5.3	-
13.	Cheeka	46913	59110	**10**	**0**	**0**	**10**	**5.1**	**0**	6.4	-
14.	Kaithal	174532	219910	**37.5**	**0**	**0**	**37.5**	**18.8**	**0**	23.8	-
15.	Kalayat	20899	26333	**5**	**0**	**0**	**5**	**2.3**	**0**	2.8	-
16.	Pundri	22729	28639	**3.5**	**0**	**0**	**3.5**	**2.5**	**0**	3.1	-
17.	Shahbad	51315	64657	**11.5**	**0**	**0**	**11.5**	**5.5**	**0**	7	-
18.	Pehowa	46793	58959	**8**	**0**	**0**	**8**	**5.1**	**0**	6.4	-
19.	Thanesar	173770	218950	**0**	**25**	**0**	**25**	**18.8**	**18.8**	23.6	-
20.	Kalka	36408	45874	**4.75**	**0**	**0**	**4.75**	**3.9**	**0**	5	0.25
21.	Pinjore	32105	40452	**5**	**0**	**0**	**5**	**3.5**	**0**	4.4	-

Sr. No.	Name of Town	Present Population 2019	Projected Population for the year 2040	Treatment Capacity (in MLD)				Capacity required in 2019	Gap in 2019	Capacity required in 2040	Gap in 2040
				Existing	Under Construction	In planning stage	Total				
22.	Mandi Dabwali	59218	74615	**16.5**	**0**	**0**	**16.5**	**6.4**	**0**	8.1	-
23.	Kalanwali	24746	31180	**9.5**	**0**	**0**	**9.5**	**2.7**	**0**	3.4	-
24.	Sirsa	258310	325471	**25**	**20**	**7.5**	**52.5**	**27.9**	**2.9**	35.2	-
25.	Rania	35553	44797	**6**	**0**	**0**	**6**	**3.8**	**0**	4.8	-
26.	Ellenabad	51827	65302	**7.5**	**0**	**0**	**7.5**	**5.6**	**0**	7.1	-
27.	Panchkula	236718	298265	**72**	**3.25**	**2.25**	**77.5**	**25.6**	**0**	32.2	-

4.1 Industrial effluent Management

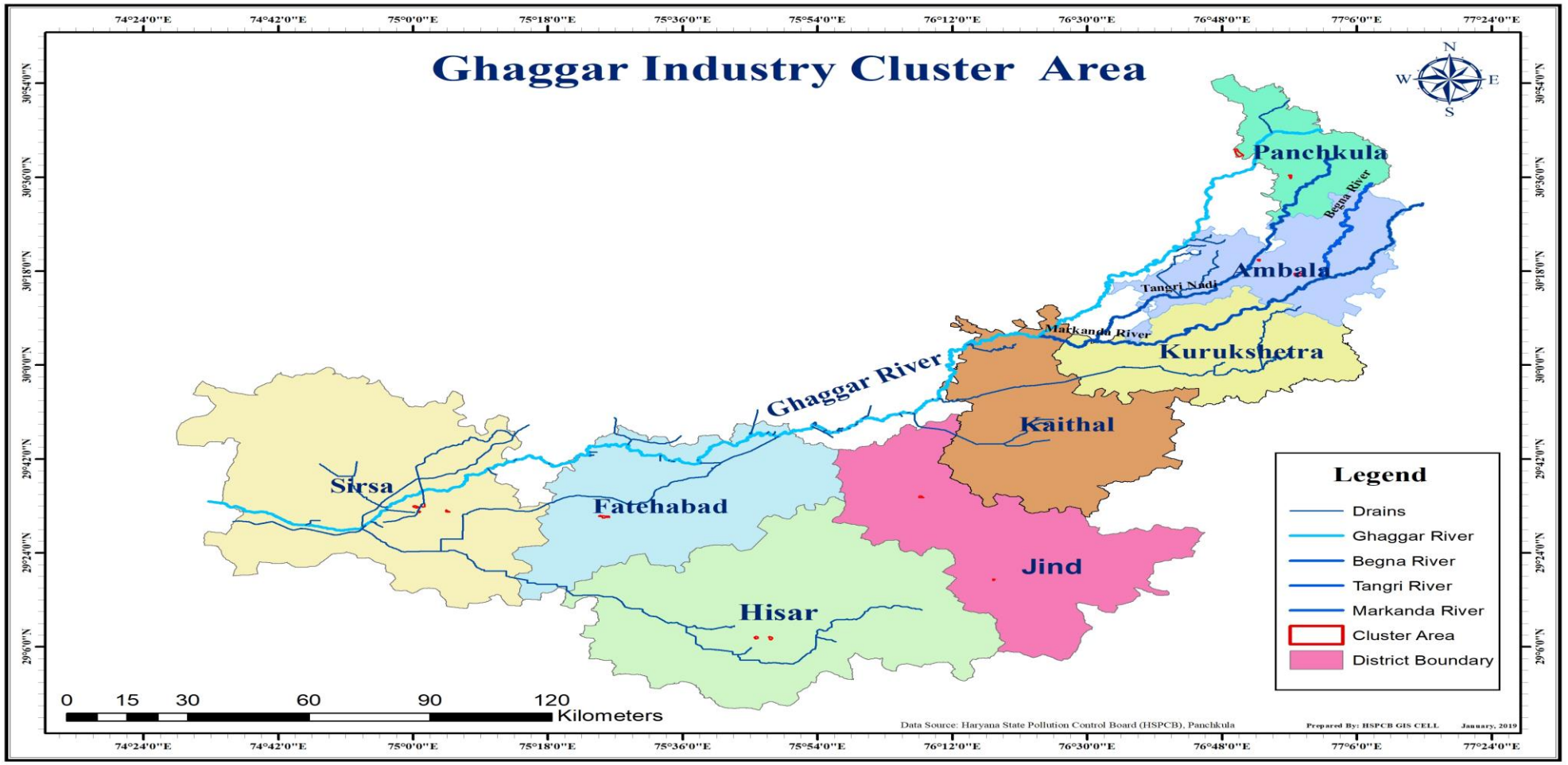
The industrial pollution is controlled by the HSPCB through consent Management system. The Industries applies for obtaining consent in prescribed form. They submit detail of effluent to be generated and the capacity of Effluent Treatment Plant (ETP). The industries are either installed in Industrial Area or outside the industrial area. Most of Industrial areas are having CETP for the treatment of effluent generated from the industries (Trade + Domestic). There are 197 industries in catachment of river Ghaggar having industrial discharge. The sector wise and region wise detail of industries is given in the table as under. The indstries consumed **5968 KLD** water and generate waste water of **4126 KLD.** The industries have installed their ETP and treating the same before discharge. The detail of water consumption and waste water genaration has been given at **Annexure-4**.

4.2 Region/Sector wise number of industries.

Sr. No.	Industry Sector	Name of Regions Panchkula		
		Panchkula	Jind	Hisar
1	Food and Food Processing	2	There is no industry having discharged directly /indirectly into river Ghaggar.	
2	Dairy Firm (Milk Product)	3		
3	Service Station	28		
4	Electoplating	34		
5	Electroplating (E-Waste)	1		
6	Pharmaceutical Formulation for R & D Centre	3		
7	Fermentation industry yeast, beer	5		
8	Printing Press	2		
9	Bakery and confectionary	2		
10	Pharmaceutical Formulation of injectable	5		
11	Phosphating & Powder coating	7		
12	Paper Mills	1		
13	Lead/Copper ingot (Unit covered under schedule IV of HWTM Rules)	1		
14	Hotel Industry	13		
15	Tanneries (Semi finish to finshed leather)	1		
16	Building and Construction Project	1		
17	Hospitals	88		
Total		**197**		

4.3 Geo Mapping of Industries

Haryana State Pollution Control Board has established Geo Informatic Cell in Head Office. This Cell has located the Geo Co-ordinated of all the industries given consent by the Board and mapped the same on state map. The major clusters has been mapped and given in the map herewith.



5.1 Regular monitoring of industries by STF and action against violators

The State Government has already constituted Special Task Force (STF) at District level, with Deputy Commissioner of the concerned District and Superintendent of Police and nominee of District Judge and Regional Officer of HSPCB as Members of the task force. This STF has been mandated to identify persons responsible for violation of law and norms relating to pollution in rivers and to conduct surprise inspections of polluting sources. The detail of industries inpected has been given in the **Annexure-5.**

5.2 Closure action against illegal industries

The HSPCB has been regularly identifying illegal industries operating without consent of the board. The closure orders are issued against such illegal industries and electric connection are disconnected. The action taken in this regard has been compiled and attached as **Annexure-6.** This is ongoing activity and more such industries shall be closed as and when identified by the HSPCB.

6. Dredging & de-silting of drains in the cities.

As per the directions of Hon'ble NGT, Urban Local Bodies Department and Irrigation Department are regularly conducting the exercise of de-silting and repairs of drains under their jurisdiction and the details on its compliance are being reviewed in its meetings and at State Level by the Chief Secretary.

The detailed plan of Desilting of Drains carried out in 2018 and to be carried out in 2019 prepared by Irrigation Department and ULBD in respect of Drains outfalling in Ghaggar or such drains which ultimately fall in river Ghaggar are enclosed as **Annexure-7** and **Annexure-8.**

7. Interception of sewage in un-sewered area of unapproved colonies

There are many unapproved areas in most of the towns where sewage has not been tapped. For the task of tapping and treatment of the same before its outfall into the drain/ river, the ULBD was directed to provide a time bound plan and it has prepared the following plan with specific time frames for specific towns of Haryana.

Town wise action plan for interception/tapping of sewage of unapproved colonies

Sr.No	Name of Locations/Points	Quantum of Sewage	Target date to tap the points
Name of Town: Pehowa			
1.	On both sides of puliya on Ambala Kaithal Road	128 Ltr/Hrs	30.06.2019
2.	Near Pooja Colony, Back side of girl school	98 Ltr/Hrs	30.06.2019
3.	Dera Fateh Singh Road(Both Sides)	70Ltr/Hrs	30.06.2019
4.	Near Govt. School, Gandhi Nagar	97 Ltr/Hrs	30.06.2019
5.	Near Mehant Dairy	105 Ltr/Hrs	30.06.2019
Name of Town: Ambala			
6.	Model Town drain	0.61 MLD	30.04.2020
7.	Baldev Nagar Barwala Road	0.32 MLD	30.04.2020
8.	Devi Nagar NH-1	1.22 MLD	30.06.2020
9.	Moti Nagar	1.63 MLD	30.04.2020
10.	Ramdass Nagar	0.61 MLD	31.12.2019

Sr.No	Name of Locations/Points	Quantum of Sewage	Target date to tap the points
11.	Narsirpur/Durga Nagar	2.04 MLD	31.12.2019
12.	Naya Gaon	0.08 MLD	30.04.2020
13.	Saddopur	0.04 MLD	30.07.2019
14.	Baldev Nagar Barwala Road under AMRUT	0.06 MLD	31.12.2019
15.	Khuda Khurd	12 MLD	12.05.2019
16.	12 Cross Road	12 MLD	12.05.2019
Name of Town: Barwala			
17.	Pinjowa wala Johad	06 MLD	31.07.2019
18.	Near Peer Baba Dham	20000 Ltr per day	31.07.2019
19.	Saini Talab near ward no 4,5&6	2 Lacs ltr per day	31.07.2019
20.	Ravidass nagar ward no 19	25000 ltr per day	31.07.2019
21.	Pond ward no 19	3 Lac ltr per day	31.07.2019
Name of Town: Cheeka			
22.	Cheeka to Drain	0.2 MLD	30.06.2019
23.	Ghula to Drain near Nandgarh	0.4 MLD	30.06.2019
Name of Town: Kaithal			
24.	Manas Road Kaithal Drain	2.45 MLD	30.06.2019
25.	Cheeka Road Kaithal Drain	1 MLD	30.06.2019
Name of Town: Panchkula			
26.	Drain of Manakpur Thakur Das	4.0 MLD	30.06.2019
27.	Drain of Kamla Nagar	4.0 MLD	30.06.2019
28.	Drain of Bangala Basti (Kalka)	0.25 MLD	30.06.2019
29.	Drain in Sec 28	11 MLD	30.06.2019
30.	Drain of Tipra	0.5 MLD	31.08.2019
31.	Drain of Billa	0.75 MLD	31.08.2019
32.	Drain of Kot	0.75 MLD	31.08.2019
33.	Drain of Khatauli	0.75 MLD	31.08.2019
34.	Drain of Sukhdarshanpur	0.75 MLD	31.08.2019
35.	Drain of Saketri	1.5 MLD	31.08.2019
36.	Drain of Nagal (Ward 20)	0.5 MLD	31.08.2019
37.	Drain of Toka	0.5 MLD	31.08.2019
38.	Drain of Billa		31.08.2019

8. Plan for laying of sewerage in approved colonies along river Ghaggar

The sewerage network is being laid in the towns to carry the sewage to STPs for treatment. The status and the monthly action plan alongwith target date is given in the table below:-

Plan of PHED and ULBD for laying of sewerage for the year 2018-19.

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2018-2019)			Remarks
				Approved	Un-approved	Jan., 19	Feb., 19	March, 19	
1	Ambala City	PHED	80	20	-	9157	2500	2000	Total 23972 mtrs. Sewer line will be laid upto 30.09.2019.
2	Ambala Sadar	PHED	67	33	-	-	-	-	Total 158912 mtrs. Sewer line will be laid upto 30.11.2019.
3	Naraingarh	PHED	92	8	-				Total 4570 mtrs. Sewer line will be laid upto 31.12.2019.
4	Kalka	PHED	95	5	-	-	-	-	The balance 5% area is not feasible due to topography of the town.
5	Pinjore	PHED	75	20	5				The 15% area under recently approved 4 No. colonies is balance (tentative length 18500 mtr.) for which estimate is under preparation.
6	Barwala	PHED	85	15	-	-	-	-	Estimate under preparation. Total 3200 mtrs. Sewer line will be laid upto 30.09.2019.
7	Hansi	PHED	92		8				Sewer already laid in approved areas.
8	Narnaund	PHED	90	10	-	250	250	100	Total 600 mtrs. Sewer line will be laid upto 31.03.2019
9	Uklana	PHED	90	10	-	200	200	100	Total 600 mtrs. Sewer line will be laid upto 31.03.2019

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2018-2019)			Remarks
				Approved	Un-approved	Jan., 19	Feb., 19	March, 19	
10	Jind	PHED	88	10	2	500	1330	1500	Total 9860 mtrs. Sewer line will be laid upto 30.08.2019
11	Safidon	PHED	80	20	0	500	1380	1000	Total 4611 mtrs. Sewer line will be laid upto 31.07.2019.
12	Uchana	PHED	94	1	5	-	-	-	DNIT under preparation. Total 2000 mtrs. Sewer line will be laid upto 30.09.2019.
13	Cheeka	PHED	82	10	8	1000	800	800	Total 3700 mtrs. Sewer line will be laid upto 31.05.2019.
14	Kaithal	PHED	85	5	10				Total 42430 mtrs. Sewer line will be laid upto 25.10.2019
		ULBD	85	15		6800	4000	4000	
15	Kalayat	PHED	95	-	5	-	-	-	Sewer already laid in approved areas.
16	Pundri	PHED	75	5	20	500	500	250	Total 1700 mtrs. Sewer line will be laid upto 31.05.2019.
17	Pehowa	PHED	95	-	5	-	-	-	Sewer already laid in approved areas.
18	Shahbad	PHED	76	10	14	500	1000	500	Total 6000 mtrs. Sewer line will be laid upto 30.09.2019.
19	Kurukshetra	PHED	83	6	11	700	700	884	Total 6884 mtrs. Sewer line will be laid upto 31.10.2019.
20	Ellenabad	PHED	85	5	10	-	200	500	Total 2375 mtrs. Sewer line will be laid upto 31.05.2019.
21	Fatehabad	PHED	80	10	10	-	-	300	Total 1200 mtrs. Sewer line will be laid upto 31.05.2019.
22	Kalanwali	PHED	85	5	10	-	-	-	Recently 1 No. colony approved for which estimate under preparation for balance 2500 mtr. Work to be completed by March, 2020.

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2018-2019)			Remarks
				Approved	Un-approved	Jan., 19	Feb., 19	March, 19	
23	Mandi Dabwali	PHED	90	5	5	-	-	-	Recently 5 No. colony approved for which estimate under preparation for balance 15000 mtr. Work to be completed by Aug, 2020.
24	Rania	PHED	85	8	7	-	-	-	Total 2050 mtrs. Sewer line will be laid upto 31.12.2019.
25	Ratia	PHED	80	10	10	500	800	1150	Total 16850 mtrs. Sewer line will be laid upto 31.03.2020
26	Sirsa	PHED	90	-	10	-	-	-	Total 10400 mtrs. Sewer line will be laid upto 30.04.2020.
27	Tohana	PHED	90	5	5	200	300	450	Total 2050 mtrs. Sewer line will be laid upto 31.05.2020.
28	Jakhal	PHED	10	90	-	-	-	-	Estimate under prepatation as this town has been recently converted from village to town.
29	Hisar	ULBD	85	15	0	1500	500	500	Total 66860mtrs. Sewer line will ne laid upto 16.03.2020

Plan of PHED and ULBD for laying of sewerage for the year 2019-20.

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2019-2020)												Remarks
				Approved	Un-approved	Apr, 19	May, 19	June, 19	July, 19	Aug, 19	Sept, 19	Oct, 19	Nov, 19	Dec, 19	Jan, 20	Feb, 20	Mar, 20	
1	Ambala City	PHED	90	10	-	2200	2000	2500	1500	1500	1215	0	0	0	0	0	0	Total 23972 mtrs. Sewer line will be laid upto 30.09.2019.
2	Ambala Sadar	PHED	67	33	-	12500	12000	12000	12000	10000	10000	7000	4469	0	0	0	0	The balance sewer in approved area will be laid by Urban Local Bodies Department under AMRUT.
3	Naraingarh	PHED	92	8	-				700	700	700	700	800	970				Total 4570 mtrs. Sewer line will be laid upto 31.12.2019.
4	Kalka	PHED	95	5	-	-	-	-										The balance 5% area is not feasible due to topography of the town.

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2019-2020)												Remarks
				Approved	Un-approved	Apr, 19	May, 19	June, 19	July, 19	Aug, 19	Sept, 19	Oct, 19	Nov, 19	Dec, 19	Jan, 20	Feb, 20	Mar, 20	
5	Pinjore	PHED	75	20	5				700	800	1000	1500	1700	1800	3000	4000	4000	The 15% area under recently approved 4 No. colonies is balance (tentative length 18500 mtr.) for which estimate is under preparation.
6	Barwala	PHED	85	15	-	-	400	550	650	750	850							Estimate under preparation. Total 3200 mtrs. Sewer line will be laid upto 30.09.2019.
7	Narnaund	PHED	90	10	-													Total 600 mtrs. Sewer line will be laid upto 31.03.2019
8	Uklana	PHED	90	10	-													Total 600 mtrs. Sewer line will be laid upto 31.03.2019
9	Jind	PHED	88	10	2	1670	1500	1350	1000	1010								Total 9860 mtrs. Sewer line will be laid upto 30.08.2019
10	Safidon	PHED	80	20	0	500	500	500	231									Total 4611 mtrs. Sewer line will be laid upto

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2019-2020)												Remarks
				Approved	Un-approved	Apr, 19	May, 19	June, 19	July, 19	Aug, 19	Sept, 19	Oct, 19	Nov, 19	Dec, 19	Jan, 20	Feb, 20	Mar, 20	
																		31.07.2019.
11	Uchana	PHED	94	1	5	-	350	400	400	500	350	-	-	-				DNIT under preparation. Total 2000 mtrs. Sewer line will be laid upto 30.09.2019.
12	Cheeka	PHED	82	10	8	600	500											Total 3700 mtrs. Sewer line will be laid upto 31.05.2019.
13	Kaithal	PHED	85	5	10													Total 42430 mtrs. Sewer line will be laid upto 25.10.2019
		ULBD	85	15		4000	4000	3500	3500	4200	4200	4230	0	0	0	0	0	
14	Pundri	PHED	75	5	20	250	200											Total 1700 mtrs. Sewer line will be laid upto 31.05.2019.
15	Shahbad	PHED	76	10	14	1000	500	1000	500	500	500							Total 6000 mtrs. Sewer line will be laid upto 30.09.2019.
16	Kuruksh etra	PHED	83	6	11	1000	1000	500	500	700	500	400						Total 6884 mtrs. Sewer line will be laid upto 31.10.2019.

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2019-2020)												Remarks
				Approved	Un-approved	Apr, 19	May, 19	June, 19	July, 19	Aug, 19	Sept, 19	Oct, 19	Nov, 19	Dec, 19	Jan, 20	Feb, 20	Mar, 20	
17	Ellenabad	PHED	85	5	10	800	875	-	-	-	-	-	-	-	-	-	-	Total 2375 mtrs. Sewer line will be laid upto 31.05.2019.
18	Fatehabad	PHED	80	10	10	300	600	-	-	-	-	-	-	-	-	-	-	Total 1200 mtrs. Sewer line will be laid upto 31.05.2019.
19	Kalanwali	PHED	85	5	10	-	-	-	-	300	300	300	300	300	300	300	400	Recently 1 No. colony approved for which estimate under preparation for balance 2500 mtr. Work to be completed by March, 2020.
20	Mandi Dabwali	PHED	90	5	5	-	-	-	-	900	900	1200	1200	1200	1200	1200	1200	Recently 5 No. colony approved for which estimate under preparation for balance 15000 mtr. Work to be completed by Aug, 2020.
21	Rania	PHED	85	8	7	-	-	-	300	250	200	300	500	500	-	-	-	Total 2050 mtrs. Sewer line will be laid upto 31.12.2019.

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2019-2020)											Remarks
				Approved	Un-approved	Apr, 19	May, 19	June, 19	July, 19	Aug, 19	Sept, 19	Oct, 19	Nov, 19	Dec, 19	Jan, 20	Feb, 20	Mar, 20	
22	Ratia	PHED	80	10	10	1600	1600	1600	1000	1000	1000	1600	1600	1600	600	600	600	Total 16850 mtrs. Sewer line will be laid upto 31.03.2020
23	Sirsa	PHED	90	-	10	500	1000	1000	1000	1000	1000	1000	1000	1000	1000	200	200	Total 10400 mtrs. Sewer line will be laid upto 30.04.2020.
24	Tohana	PHED	90	5	5	400	700	-	-	-	-	-	-	-	-	-	-	Total 2050 mtrs. Sewer line will be laid upto 31.05.2020.
25	Hisar	ULBD	85	15	0	5000	5000	5000	4000	4000	4000	5000	5000	5000	5000	5000	3360	Total 66860mtrs. Sewer line will ne laid upto 16.03.2020

Plan of PHED and ULBD for laying of sewerage for the year 2020-21.

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2020-2021)									Remarks
				Approved	Un-approved	Apr, 20	May, 20	June, 20	July, 20	Aug, 20	Sept., 20	Oct. 20	Nov. 20	Dec. 20	
1	Ambala City	PHED	90	10	-										The balance sewer in approved area will be laid by Urban Local Bodies Department under AMRUT.
2	Ambala Sadar	PHED	67	33	-										The balance sewer in approved area will be laid by Urban Local Bodies Department under AMRUT.
3	Kalka	PHED	95	5	-	-	-	-							The balance 5% area is not feasible due to topography of the town.
4	Pinjore	PHED	75	20	5										The 15% area under recently approved 4 No. colonies is balance (tentative length 18500 mtr.) for which estimate is under preparation.
5	Safidon	PHED	80	20	0										Total 4611 mtrs. Sewer line will be laid upto 31.07.2019.
6	Kaithal	PHED	85	5	10										The balance sewer in approved area will be laid by Urban Local Bodies Department under AMRUT.

Sr. No.	Name of town	Deptt.	%age sewered area	% age unsewered area		Length (in Mtr.) to be laid in (2020-2021)									Remarks
				Approved	Un-approved	Apr, 20	May, 20	June, 20	July, 20	Aug, 20	Sept., 20	Oct. 20	Nov. 20	Dec. 20	
7	Mandi Dabwali	PHED	90	5	5	1200	1200	1200	1200	1200					Recently 5 No. colony approved for which estimate under preparation for balance 15000 mtr. Work to be completed by Aug, 2020.
8	Sirsa	PHED	90	-	10	500									Total 10400 mtrs. Sewer line will be laid upto 30.04.2020.

10. Action Plan for STPs

10.1 Action plan for existing STPs

Action plan for Existing STPs

Sr. No.	Name of the district	Name of the town/ city	Deptt.	Existing STP and Capacity (MLD)
1	Ambala	Naya Gaon, Unit-I, Ambala City	PHED	3.25
2	Ambala	Naya gaon, Unit-II, Ambala City	PHED	3.25
3	Ambala	Baldev Nagar, Unit-I, Ambala City	PHED	5
4	Ambala	Baldev Nagar, Unit-II, Ambala City	PHED	3.25
5	Ambala	Moti Nagar, Unit-I, Ambala City	PHED	5
6	Ambala	Moti Nagar, Unit-II, Ambala City	PHED	5
7	Ambala	Modal Town, Ambala City	PHED	6
8	Ambala	Nasirpur, Ambala City	PHED	3.25
9	Ambala	Sadopur	PHED	0.25
10	Ambala	Devi Nagar, Ambala City	PHED	3.25
11	Ambala	Naraingarh	PHED	3
12	Kurukshetra	Modal Town, Pehowa	PHED	8
13	Kurukshetra	Ladwa Road, Shahbad	PHED	11.5
14	Kurukshetra	Indri Road, Ladwa	PHED	7
15	Panchkula	Kalka	PHED	4.5
16	Panchkula	Kalka	PHED	0.25
17	Panchkula	Nalagarh Road, Pinjore	PHED	5
18	Jind	Jind	PHED	15
19	Jind	Narwana	PHED	3.5
20	Jind	Narwana	PHED	3.75
21	Jind	Narwana	PHED	2.6
22	Jind	Uchana	PHED	2
23	Jind	Uchana	PHED	1.5
24	Jind	Jind	PHED	5
25	Jind	Safidon	PHED	9
26	Jind	Julana	PHED	4
27	Kaithal	Cheeka	PHED	10
28	Kaithal	Jind Road, Kaithal	PHED	10

Sr. No.	Name of the district	Name of the town/ city	Deptt.	Existing STP and Capacity (MLD)
29	Kaithal	Manas Road, Kaithal	PHED	10
30	Kaithal	Manas Road, Kaithal	PHED	10
31	Kaithal	Kalayat	PHED	5
32	Kaithal	Pundri	PHED	3.5
33	Hisar	Dhani Kushal, Bhiwani Road, Hansi	PHED	5
34	Hisar	Lalpura- Jind Road, Hansi	PHED	7.5
35	Hisar	Dhani Gram, Barwala	PHED	6
36	Hisar	Azad Nagar, Rajgarh Road Hisar	PHED	15
37	Hisar	Rishi Nagar, Hisar	PHED	40
38	Hisar	Hisar	PHED	4
39	Hisar	Uklana	PHED	6.5
40	Sirsa	Chautala Road, Dabwali	PHED	16.5
41	Sirsa	Shamsabad patti, Kalania Road, Sirsa	PHED	15
42	Sirsa	Vill. Nattar 1, Sirsa	PHED	5
43	Sirsa	Vill. Nattar 2, Sirsa	PHED	5
44	Sirsa	Daddu Road, Kalanwali	PHED	9.5
45	Sirsa	Ellenabad	PHED	7.5
46	Sirsa	Rania	PHED	6
47	Fatehabad	Vill. Bhodia Khera, Bhattu Road, Fatehabad	PHED	10
48	Fatehabad	Vill.Amani, Tohana, Distt. Fatehabad	PHED	10
49	Fatehabad	Ratia	PHED	6.5
	HSVP			342.6
1	Ambala	Sec-7, Urban Estate, Ambala City	HSVP	2
2	Panchkula	Sec-20, Panchkula	HSVP	18
3	Panchkula	Sec-20, Panchkula	HSVP	39
4	Panchkula	Sec-28, Panchkula	HSVP	15
5	Jind	Jind	HSVP	10
6	Kaithal	Kaithal	HSVP	7.5
7	Hisar	Dabara Tosham Road, Hisar	HSVP	15
8	Fatehbad	Village Majra	HSVP	10

10.2 Action plan for under construction STPs (2018-19)

The action plan for the under construction STPs along river Ghaggar is given in the table:-

Action plan for STPs under construction (In cumulative Percentage) for the year 2018-2019

Sr. No.	Name of District	Name of town/city	Deptt.	Capacity (MLD)	Date of completion of construction	% physical progress to be achieved			Remarks
						Jan., 19	Feb., 19	Mar 19	
1	Panchkula	Toka	ULBD	0.5	26.12.2019	15	10	12	Completed by 26.12.2019
2	Panchkula	Nangal	ULBD	0.5	26.12.2019	10	8	10	Completed by 26.12.2019
3	Panchkula	Khatoli	ULBD	0.75	26.12.2019	-	3	12	Completed by 26.12.2019
4	Panchkula	Kot	ULBD	0.75	26.12.2019	50	7	7	Completed by 26.12.2019
5	Panchkula	Billa	ULBD	0.75	26.12.2019		-	-	Site under Court Case.
6	Panchkula	Sukhdarshanpur	ULBD	0.75	26.12.2019	20	8	9	Completed by 26.12.2019
7	Panchkula	Kangowalan	ULBD	1	26.12.2019	-	5	12	Completed by 26.12.2019
8	Panchkula	Suketri	ULBD	1.5	26.12.2019		-	-	Land not available
10	Ambala	Barara	PHED	4	31.10.2019	55	60	65	completed upto 31.10.2019
11	Ambala	Ambala	HSVP	5	31.03.2020	2	5	8	Completed by 31.03.2020
12	Ambala	12 Cross Road	ULBD	12	04.02.2020	-	5	7	Completed by 04.02.2020
13	Ambala	Khuda Khurd	ULBD	12	04.02.2020	-	5	7	Completed by 04.02.2020
14	Kurukshetra	Kurukshetra	HSVP	15	31.12.2019	50	55	57	Completed by 31.12.2019
15	Kurukshetra	Thanesar	PHED	25	31.05.2019	80	85	90	completed upto 31.05.2019

Sr. No.	Name of District	Name of town/city	Deptt.	Capacity (MLD)	Date of completion of construction	% physical progress to be achieved			Remarks
						Jan., 19	Feb., 19	Mar 19	
16	Jind	Jind	PHED	7	30.11.2019	50	55	60	completed upto 30.11.2019
17	Fatehabad	Fatehabad	PHED	5	31.10.2018	-	-	-	-
18	Hisar	Narnaund	PHED	4	31.05.2018	-	-	-	-
19	Hisar	Hansi	PHED	6.5	31.05.2019	80	85	90	completed upto 31.05.2019
20	Hisar	Village, Dabra	ULBD	8	05.02.2020	-	3	7	completed upto 05.02.2020

10.2.1 Action plan for under construction STPs (2019-20)

The action plan for the under construction STPs along river Ghaggar is given in the table:-

Action plan for STPs under construction (In cumulative Percentage for the year 2019-2020

Sr. No.	Name of District	Name of town/city	Deptt.	Capacity (MLD)	Date of completion of construction	% physical progress to be achieved												Remarks
						Apr, 19	May, 19	June, 19	July, 19	Aug, 19	Sept, 19	Oct, 19	Nov, 19	Dec, 19	Jan, 20	Feb, 20	Mar, 20	
1	Panchkula	Toka	ULBD	0.5	26.12.2019	12	10	9	10	7	7	5	4	1				Completed by 26.12.2019
2	Panchkula	Nangal	ULBD	0.5	26.12.2019	10	10	10	10	9	9	7	5	2				Completed by 26.12.2019
3	Panchkula	Khatoli	ULBD	0.75	26.12.2019	12	12	15	10	8	8	8	8	6				Completed by 26.12.2019
4	Panchkula	Kot	ULBD	0.75	26.9.2019	7	5	6	7	7	3							Completed by 26.9.2019
5	Panchkula	Billa	ULBD	0.75	26.12.2019													Site under Court Case.
6	Panchkula	Sukhdarshanpur	ULBD	0.75	26.12.2019	9	9	9	8	8	8	7	4					Completed by 26.12.2019
7	Panchkula	Kangowalan	ULBD	1	26.12.2019	12	15	14	12	10	8	7	4	3				Completed by 26.12.2019

Sr. No.	Name of District	Name of town/city	Deptt.	Capacity (MLD)	Date of completion of construction	% physical progress to be achieved												Remarks
						Apr, 19	May, 19	June, 19	July, 19	Aug, 19	Sept, 19	Oct, 19	Nov, 19	Dec, 19	Jan, 20	Feb, 20	Mar, 20	
8	Panchkula	Suketri	ULBD	1.5	26.12.2019													Land not available
9	Ambala	Barara	PHED	4	31.10.2019	70	75	80	85	90	95	100						completed upto 31.10.2019
10	Ambala	Ambala	HSVP	5	31.03.2020	12	15	20	25	30	35	40	45	50	70	90	100	Completed by 31.03.2020
11	Ambala	12 Cross Road	ULBD	12	04.02.2020	10	12	12	10	9	8	10	7	6	4			Completed by 04.02.2020
12	Ambala	Khuda Khurd	ULBD	12	04.02.2020	10	12	12	10	9	8	10	7	6	4			Completed by 04.02.2020
13	Kurukshetra	Kurukshetra	HSVP	15	31.12.2019	60	65	68	70	72	75	77	80	85				Completed by 31.12.2019
14	Kurukshetra	Thanesar	PHED	25	31.05.2019	95	100											completed upto 31.05.2019

Sr. No.	Name of District	Name of town/city	Deptt.	Capacity (MLD)	Date of completion of construction	% physical progress to be achieved												Remarks
						Apr, 19	May, 19	June, 19	July, 19	Aug, 19	Sept, 19	Oct, 19	Nov, 19	Dec, 19	Jan, 20	Feb, 20	Mar, 20	
15	Jind	Jind	PHED	7	30.11.2019	65	70	75	80	85	90	95	100					completed upto 30.11.2019
16	Hisar	Hansi	PHED	6.5	31.05.2019	95	100											completed upto 31.05.2019
17	Hisar	Village, Dabra	ULBD	8	05.02.2020	10	12	12	12	10	10	8	7	5	4			completed upto 05.02.2020

10.3 Action plan for proposed STPs

Sr. No.	Name of the district	Name of the town/city	Deptt.	Capacity (MLD)	Date of Start of construction and completion
HSVP					
1	Ambala	Sector-32, Ambala City	HSVP	5	31.12.2021
2	Ambala	Naraingarh	HSVP	1	30.09.2022
3	Panchkula	Pinjore	HSVP	8	30.4.2023
4	Jind	Jind	HSVP	5	30.06.2023
5	Hisar	Hansi	HSVP	5	30.06.2025
6	Hisar	Hisar	HSVP	10	31.3.2024
7	Hisar	Hisar	HSVP	5	30.06.2024
8	Sirsa	Sirsa	HSVP	7.5	30.06.2023
ULBD					
1	Ambala	village Babyal	ULB	10	
2	Ambala	Sector-32, 33, 34 Ambala	ULB	5	

10.4 Monitoring of STPs / Compliance status

The STPs are being montiored on quarterly basis and the samples from STPs are collected. The results of the analysis report for effluent samples of the STPs have been compiled and placed as **Annexure-9.**

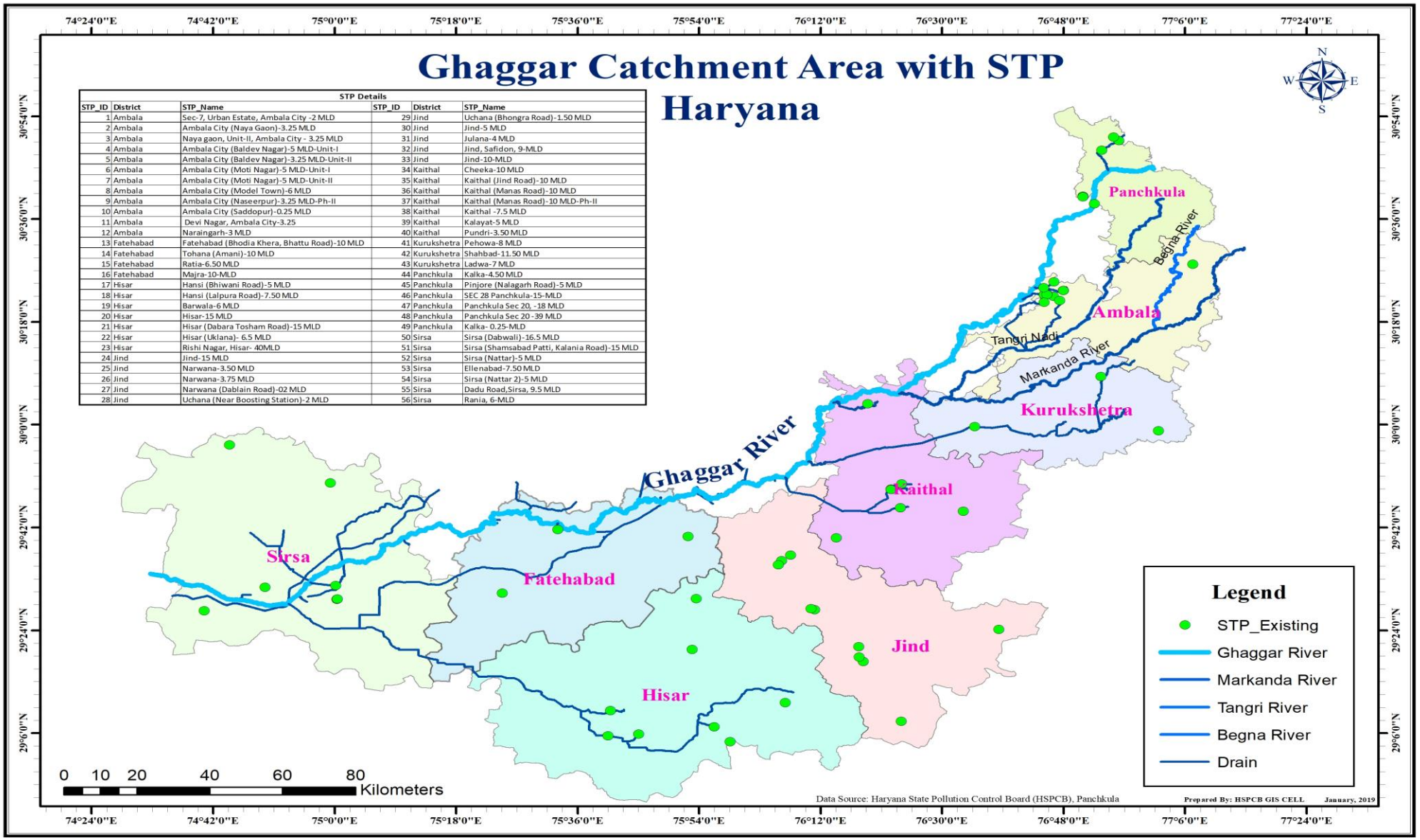
10.5 STP sludge

Presently the sludge generated in the STPs is used as manure.The HSPCB has issued directions for collection of sludge samples from STPs and the officers of the Board have started collecting the sludge samples from STPs. This exercise shall be completed for all STPs by 31.1.2019.

Ghaggar Catchment Area with STP Haryana

STP Details

STP_ID	District	STP_Name	STP_ID	District	STP_Name
1	Ambala	Sec-7, Urban Estate, Ambala City -2 MLD	29	Jind	Uchana (Bhongra Road)-1.50 MLD
2	Ambala	Ambala City (Naya Gaon)-3.25 MLD	30	Jind	Jind-5 MLD
3	Ambala	Naya gaon, Unit-II, Ambala City - 3.25 MLD	31	Jind	Julana-4 MLD
4	Ambala	Ambala City (Baldev Nagar)-5 MLD-Unit-I	32	Jind	Jind, Safidon, 9-MLD
5	Ambala	Ambala City (Baldev Nagar)-3.25 MLD-Unit-II	33	Jind	Jind-10-MLD
6	Ambala	Ambala City (Moti Nagar)-5 MLD-Unit-I	34	Kaithal	Cheeka-10 MLD
7	Ambala	Ambala City (Moti Nagar)-5 MLD-Unit-II	35	Kaithal	Kaithal (Jind Road)-10 MLD
8	Ambala	Ambala City (Model Town)-6 MLD	36	Kaithal	Kaithal (Manas Road)-10 MLD
9	Ambala	Ambala City (Naseerpur)-3.25 MLD-Ph-II	37	Kaithal	Kaithal (Manas Road)-10 MLD-Ph-II
10	Ambala	Ambala City (Saddopur)-0.25 MLD	38	Kaithal	Kaithal -7.5 MLD
11	Ambala	Devi Nagar, Ambala City-3.25	39	Kaithal	Kalayat-5 MLD
12	Ambala	Naraingarh-3 MLD	40	Kaithal	Pundri-3.50 MLD
13	Fatehabad	Fatehabad (Bhodia Khera, Bhattu Road)-10 MLD	41	Kurukshetra	Pehowa-8 MLD
14	Fatehabad	Tohana (Amani)-10 MLD	42	Kurukshetra	Shahbad-11.50 MLD
15	Fatehabad	Ratia-6.50 MLD	43	Kurukshetra	Ladwa-7 MLD
16	Fatehabad	Majra-10-MLD	44	Panchkula	Kalka-4.50 MLD
17	Hisar	Hansi (Bhiwani Road)-5 MLD	45	Panchkula	Pinjore (Nalagarh Road)-5 MLD
18	Hisar	Hansi (Lalpura Road)-7.50 MLD	46	Panchkula	SEC 28 Panchkula-15-MLD
19	Hisar	Barwala-6 MLD	47	Panchkula	Panchkula Sec 20, -18 MLD
20	Hisar	Hisar-15 MLD	48	Panchkula	Panchkula Sec 20 -39 MLD
21	Hisar	Hisar (Dabara Tosham Road)-15 MLD	49	Panchkula	Kalka- 0.25-MLD
22	Hisar	Hisar (Uklana)- 6.5 MLD	50	Sirsa	Sirsa (Dabwali)-16.5 MLD
23	Hisar	Rishi Nagar, Hisar- 40MLD	51	Sirsa	Sirsa (Shamsabad Patti, Kalania Road)-15 MLD
24	Jind	Jind-15 MLD	52	Sirsa	Sirsa (Nattar)-5 MLD
25	Jind	Narwana-3.50 MLD	53	Sirsa	Ellenabad-7.50 MLD
26	Jind	Narwana-3.75 MLD	54	Sirsa	Sirsa (Nattar 2)-5 MLD
27	Jind	Narwana (Dablain Road)-02 MLD	55	Sirsa	Dadu Road,Sirsa, 9.5 MLD
28	Jind	Uchana (Near Boosting Station)-2 MLD	56	Sirsa	Rania, 6-MLD



11. Action Plan for CETPs

The action plan for each CETP is given in the table.

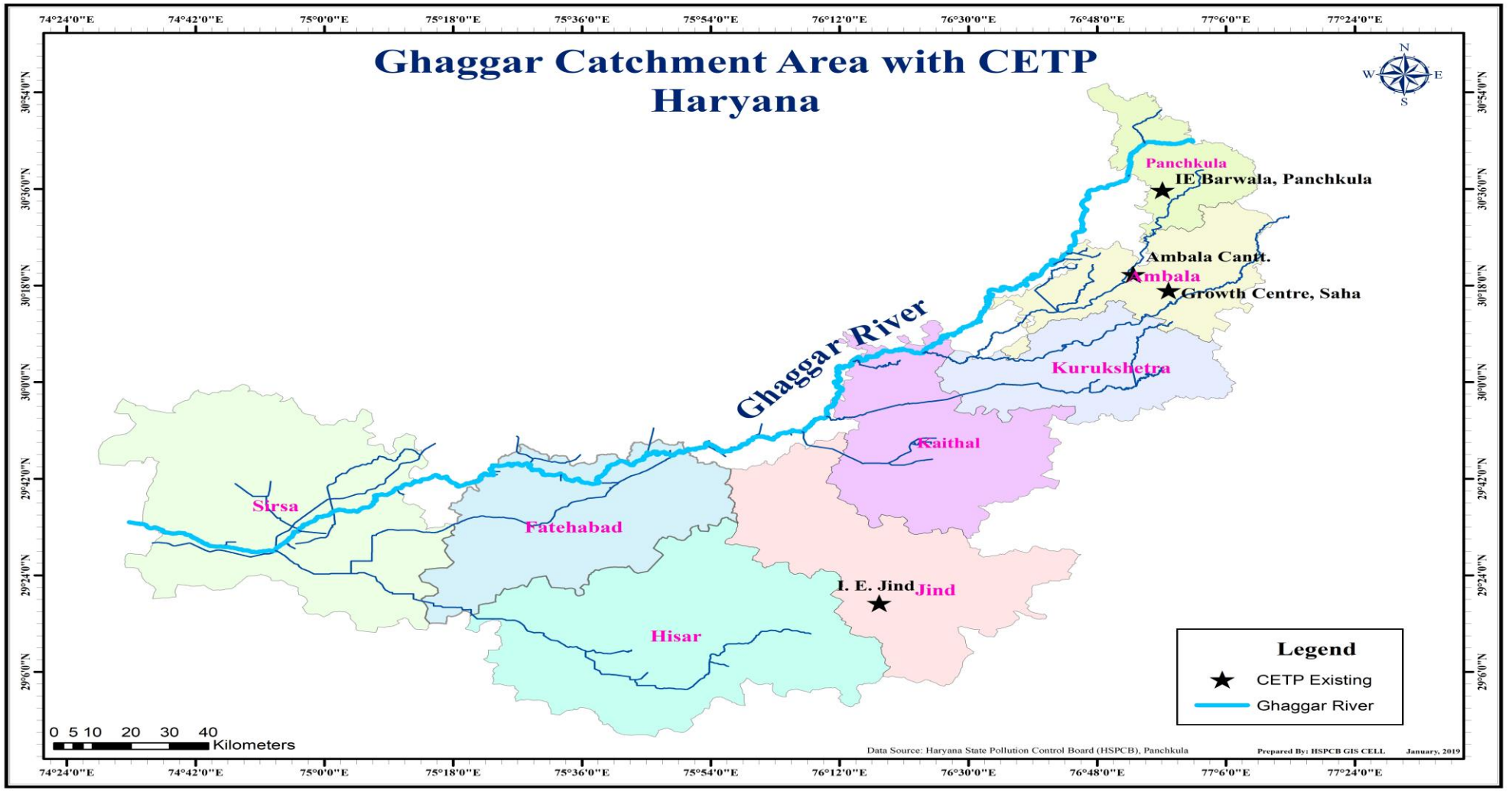
Status of recycling in existing CETPs					
Sr.No.	**Name of the district**	**Name of the town/city**	**Deptt.**	**Capacity (MLD)**	**Range of BOD (mg/l) achieved in 2018**
1	Panchkula	IE Barwala, Panchkula	HSIIDC	0.5	10 - 14
2	Ambala	Ambala Cantt.	HSIIDC	0.5	11 - 18
3	Ambala	Growth Centre, Saha	HSIIDC	5	9 - 24
4	Jind	I. E. Jind	HSIIDC	0.1	12 - 26

Under Proposal of CETPs

Sr. No.	**Name of the district**	**Name of the town/city**	**Deptt.**	**Capacity (MLD)**	**Date of start of construction**
1	Jind	IE Narwana	HSIIDC	1.5	30.06.2020
2	Sirsa	IDDC, Sirsa	HSIIDC	1.5	30.06.2020

12. Monitoring of CETPs

Sr. No.	Name and Address the CETP	Observed final effluent quality										Compliance Status
		Report No. & date	BOD	COD	PH	TSS	Hexa. Chrome	Total Chrome	Nickle	Iron	Zinc	
		Limits	**30**	**250**	**6.5-9.0**	**100**	**0.2**	**2**	**3**	**3**	**5**	
1	**IE Barwala, Panchkula**	4098 dt. 07.02.2018	14	50	7.66	15	-	-	-	-	-	Complying
		4562, 02.05.2018	12.5	34	7.88	14	-	-	-	-	-	Complying
		4956, 09.08.2018	10	38.8	7.77	14	-	-	-	-	-	Complying
		5287, 08.11.2018	11	44.4	6.63	25	-	-	-	-	-	Complying
2	**Ambala Cantt.**	4084 dt. 30.01.2018	18	67.6	7.68	30	-	-	-	-	-	Complying
		4590, 11.05.2018	18	62.4	7.52	24	-	-	-	-	-	Complying
		4967 dt. 09.08.2018	11	38.8	7.5	12	-	-	-	-	-	Complying
3	**IDC Saha, Ambala**	4083 dt. 30.01.2018	11	38.4	8.12	37	-	-	-	-	-	Complying
		4651, 14.05.2018	24	143.2	7.68	4	-	-	-	-	-	Complying
		4970 dt. 09.08.2018	9	34	8.14	12	-	-	-	-	-	Complying
		5292, 12.11.2018	14	58.4	6.9	11	-	-	-	-	-	Complying
4	**I. E. Jind**	3961 Dt. 01.01.2018	17.5	82.4	8.23	16	-	-	-	-	-	Complying
		4542 dt. 30.04.2018	26	105.6	7.55	N.D	-	-	-	-	-	Complying
		121, 14.08.2018	12	48	8	20	-	-	-	-	-	Complying


Ghaggar Catchment Area with CETP
Haryana
Panchkula
IE Barwala, Panchkula
Ambala Cantt.
Ambala
Growth Centre, Saha
Ghaggar River
Kurukshetra
Kaithal
Sirsa
Fatehabad
I. E. Jind
Jind
Hisar
Legend
CETP Existing
Ghaggar River
0 5 10 20 30 40
Kilometers
Data Source: Haryana State Pollution Control Board (HSPCB), Panchkula
Prepared By: HSPCB GIS CELL
January, 2019
74°24'0"E
74°42'0"E
75°0'0"E
75°18'0"E
75°36'0"E
75°54'0"E
76°12'0"E
76°30'0"E
76°48'0"E
77°6'0"E
77°24'0"E
30°54'0"N
30°36'0"N
30°18'0"N
30°0'0"N
29°42'0"N
29°24'0"N
29°6'0"N

13. Online Monitoring Devices by the STPs in Ghaggar Catchment

The State of Haryana has already decided for installtion of Real Time Online Monitoring Devices on the STPs. The plan for installation of Online Monitoring Devices at STPs in given as under.

Sr. No.	Name of the district	Name of the town/ city	Deptt.	Capacity (MLD)	Target Date for installation of OMD
1	Ambala	Naya Gaon, Unit-I, Ambala City	PHED	3.25	Installed
2	Ambala	Naya gaon, Unit-II, Ambala City	PHED	3.25	31.03.2019
3	Ambala	Baldev Nagar, Unit-I, Ambala City	PHED	5	Installed
4	Ambala	Baldev Nagar, Unit-II, Ambala City	PHED	3.25	31.03.2019
5	Ambala	Moti Nagar, Unit-I, Ambala City	PHED	5	31.03.2019
6	Ambala	Moti Nagar, Unit-II, Ambala City	PHED	5	31.03.2019
7	Ambala	Modal Town, Ambala City	PHED	6	Installed
8	Ambala	Nasirpur, Ambala City	PHED	3.25	31.03.2019
9	Ambala	Sadopur	PHED	0.25	31.03.2019
10	Ambala	Devi Nagar, Ambala City	PHED	3.25	31.03.2019
11	Ambala	Naraingarh	PHED	3	31.03.2019
12	Kurukshetra	Modal Town, Pehowa	PHED	8	31.03.2019
13	Kurukshetra	Ladwa Road, Shahbad	PHED	11.5	31.03.2019
14	Kurukshetra	Indri Road, Ladwa	PHED	7	31.03.2019
15	Panchkula	Kalka	PHED	4.5	31.03.2019
16	Panchkula	Kalka	PHED	0.25	31.03.2019
17	Panchkula	Nalagarh Road, Pinjore	PHED	5	31.03.2019
18	Jind	Jind	PHED	15	31.03.2019
19	Jind	Narwana	PHED	3.5	31.03.2019
20	Jind	Narwana	PHED	3.75	31.03.2019
21	Jind	Narwana	PHED	2.6	31.03.2019
22	Jind	Uchana	PHED	2	31.03.2019
23	Jind	Uchana	PHED	1.5	31.03.2019
24	Jind	Jind	PHED	5	31.03.2019
25	Jind	Safidon	PHED	9	31.03.2019
26	Jind	Julana	PHED	4	31.03.2019
27	Kaithal	Cheeka	PHED	10	31.03.2019
28	Kaithal	Jind Road, Kaithal	PHED	10	Installed
29	Kaithal	Manas Road, Kaithal	PHED	10	Installed

Sr. No.	Name of the district	Name of the town/ city	Deptt.	Capacity (MLD)	Target Date for installation of OMD
30	Kaithal	Manas Road, Kaithal	PHED	10	Installed
31	Kaithal	Kalayat	PHED	5	Installed
32	Kaithal	Pundri	PHED	3.5	31.03.2019
33	Hisar	Dhani Kushal, Bhiwani Road, Hansi	PHED	5	31.03.2019
34	Hisar	Lalpura- Jind Road, Hansi	PHED	7.5	31.03.2019
35	Hisar	Dhani Gram, Barwala	PHED	6	31.03.2019
36	Hisar	Azad Nagar, Rajgarh Road Hisar	PHED	15	31.03.2019
37	Hisar	Rishi Nagar, Hisar	PHED	40	Installed
38	Hisar	Hisar	PHED	4	31.03.2019
39	Hisar	Uklana	PHED	6.5	Installed
40	Sirsa	Chautala Road, Dabwali	PHED	16.5	31.03.2019
41	Sirsa	Shamsabad patti, Kalania Road, Sirsa	PHED	15	31.03.2019
42	Sirsa	Vill. Nattar 1, Sirsa	PHED	5	31.03.2019
43	Sirsa	Vill. Nattar 2, Sirsa	PHED	5	31.03.2019
44	Sirsa	Daddu Road, Kalanwali	PHED	9.5	31.03.2019
45	Sirsa	Ellenabad	PHED	7.5	31.03.2019
46	Fatehabad	Vill. Bhodia Khera, Bhattu Road, Fatehabad	PHED	10	31.03.2019
47	Fatehabad	Vill.Amani, Tohana, Distt. Fatehabad	PHED	10	31.03.2019
48	Fatehabad	Ratia	PHED	6.5	31.03.2019
	HSVP				
1	Ambala	Sec-7, Urban Estate, Ambala City	HSVP	2	31.03.2019
2	Panchkula	Sec-20, Panchkula	HSVP	18	Installed
3	Panchkula	Sec-20, Panchkula	HSVP	39	Installed
4	Panchkula	Sec-28, Panchkula	HSVP	15	Installed
5	Jind	Jind	HSVP	10	Installed
6	Kaithal	Kaithal	HSVP	7.5	Installed
7	Hisar	Dabara Tosham Road, Hisar	HSVP	15	31.03.2019
8	Fatehbad	Village Majra	HSVP	10	Installed

Sr. No.	Name of the district	Name of the town/ city	Deptt.	Capacity (MLD)	Target Date for installation of OMD
Status of Online Monitoring Devices by CETPs					
Sr.No.	**Name of the district**	**Name of the town/city**	**Deptt.**	**Capacity (MLD)**	**Online data**
1	Panchkula	IE Barwala, Panchkula	HSIIDC	0.5	31.03.2019
2	Ambala	Ambala Cantt.	HSIIDC	0.5	31.03.2019
3	Ambala	Saha	HSIIDC	5	installed
4	Jind	I. E. Jind	HSIIDC	0.1	31.03.2019

13.1 Online Monitoring Devices by the industries in Ghaggar Catchment:-

The HSPCB has been persuading the industries having discharge directly or indirectly into rivers. The HSPCB has also got developed its own central software for receiving the data from Online Monitoring Devices installed by the industries. 4 out of 5 large and medium Industires have already installed continous Online Effluent monitoring devices. In the intial face only large and medium water polluting units have been directed to install the real time Online Monitoring Devices. The action Plan regarding installation of Online Monitoring Devices has been given in **Annexure-10.**

14. Plan for Integrated Solid Waste Management (ISWM) of 7 Clusters (Falling in Ghaggar Catchment Area)

The State of Haryana has devided entire state into clusters of towns. The solid waste from towns shall be treated and disposed into a common Municipal Solid Waste Treatment Facility for a cluster. Teh detail of ISWM projects for towns along river Ghaggar are being implemented by Urban Local Bodies Department and the facilities shall be developed. The action plan for each year has been given in the suceefing tables.

14.1 ISWM Plan for Year 2019

Proposed Monthly Milestone for Development of Waste Processing Site Under ISWM Cluster Project

Sr.	Cluster	Waste Generated (in TDP/Technology)	Current status	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
1	Panchkula **ULBs:** Panchkula Naraingarh	186 Waste to Compost+ RDF	Conditional LOI Issued, project awarding under process. EC awarded for the MSW site at Jhuriwala.	Physical verification of the Credentials for project	Issue of Final LOI	Signing of Agreement	Condition precedent: Handover of relevant documents & sites		Condition precedent: Financial Closure & Procurement of equipments/ vehicles etc.		Condition precedent: Start of Collection and Transportation activities along with Source Segregation activities.		Start of Project Construction activities. Boundary Wall, foundation, Sanitary Landfill, Leachate Treatment Plant, Compost Pad, Waste to Compost Plant Building, RDF Plant	
2	Fatehabad - Bhuna **ULBs:** Fatehabad Bhuna Ratia Tohana Uklana Mandi	120 Waste to compost + RDF	Technical Evaluation if bid received under process. EC approval under process. ToR approved.	Technical Evaluation	Financial Evaluation	Issue of LOI	Signing of CA		Condition precedent: Handover of relevant documents & sites		Condition precedent: Financial Closure & Procurement of equipments/ vehicles etc.		Condition precedent: Start of Collection and Transportation activities along with Source Segregation activities.	

Sr.	Cluster	Waste Generated (in TDP/Technology)	Current status	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
3	Ambala - Karnal **ULBs:** Ambala Thanesar Shahabad Pehowa Cheeka Karnal Gharaunda Indri Nilokheri Nissing Pundri Tarori	1275 Waste to Energy	Tender documents have been prepared and will be floated in February 2019. EC approval under process. ToR application submitted. EDS reply on ToR to be submitted for approval.	Bid Process Management (Issue of tender)	Pre-Bid Meeting	Final Bid Submission	Technical Evaluation	Financial Evaluation	Issue of LOI	Signing of CA		Condition precedent: Handover of relevant documents & sites		Condition precedent: Financial Closure & Procurement of equipments/ vehicles etc.
4	Hisar **ULBs:** Hisar Barwala Hansi Narnaul Siwani	262 Waste to Compost + RDF	Tender documents have been prepared and will be floated in February 2019. EC approval under	Bid Process Management (Issue of tender)	Pre-Bid Meeting	Final Bid Submission	Technical Evaluation	Financial Evaluation	Issue of LOI	Signing of CA		Condition precedent: Handover of relevant documents & sites		Condition precedent: Financial Closure & Procurement of equipments/ vehicles etc.

Sr.	Cluster	Waste Generated (in TDP/Technology)	Current status	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
			process. ToR approved.											
5	Dabwali - Sirsa **ULBs:** Sirsa Dabwali Ellenabad Kalanwali Rania	177 Waste to Compost+ RDF	Tender documents have been prepared and will be floated in June 2019. ToR application to be submitted for approval.	(Finalization and approval of Tender Documents)				Bid Process Management (Issue of tender)	Pre-Bid Meeting	Final Bid Submission	Technical Evaluation	Financial Evaluation	Issue of LOI	Signing of CA
6	Jind **ULBs:** Jind Kaithal Kalayat Narwana Rajound Uchana Assandh	270 Waste to Compost+ RDF	Tender documents have been prepared and will be floated in June 2019. ToR application to be submitted for approval.	(Finalization and approval of Tender Documents)				Bid Process Management (Issue of tender)	Pre-Bid Meeting	Final Bid Submission	Technical Evaluation	Financial Evaluation	Issue of LOI	Signing of CA

14.2 ISWM Plan for Year 2020

Proposed Monthly Milestone for Development of Waste Processing Site Under ISWM Cluster Project

Sr.	Cluster	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
1	Panchkula **ULBs:** Panchkula Naraingarh	10% completion of civil works	20% completion of civil works	30% completion ofcivil works	40% completion of Civil Works	50% completion of Civil Works	70% completion of Civil Works	90% completion of Civil Works and completion of SLF	100% of completion of Civil Works and start of Installation of plant equipments	100% completion of installation of plant equipments		Commissiong of the Waste to Compsot/RDF Plant	
2	Fatehabad - Bhuna **ULBs:** Fatehabad Bhuna Ratia Tohana Uklana Mandi	Start of Project Construction activities. Boundary Wall, foundation, Sanitary Landfill, Leachate Treatment Plant, Compost Pad, Waste to Compost Plant Building, RDF Plant etc. **(with subject to environment clearance**)		10% completion of civil works	20% completion of civil works	30% completion ofcivil works	40% completion of Civil Works	50% completion of Civil Works	70% completion of Civil Works	90% completion of Civil Works and completion of SLF	100% of completion of Civil Works and start of Installation of plant equipments	100% completion of installation of plant equipments	
3	Ambala - Karnal **ULBs:** Ambala Thanesar Shahabad Pehowa Cheeka	Condition precedent: Start of Collection and Transportation activities along with Source Segregation activities.			Start of Project Construction activities. Boundary Wall, foundation, Sanitary Landfill, Leachate Treatment Plant, Compost Pad, Waste to Compost Plant Building, RDF Plant etc. **(With**		5% ompletion oof cicil works	10% ompletion oof cicil works	20% ompletion oof cicil works	30% omplet ion oof cicil works	40% completion of civil works	50% omple tion oof cicil works	60% completion of civil works

Sr.	Cluster	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
	Karnal Gharaunda Indri Nilokheri Nissing Pundri Tarori				**subject to Environment Clearance)**								
4	Hisar **ULBs:** Hisar Barwala Hansi Narnaul Siwani	Condition precedent: Start of Collection and Transportation activities along with Source Segregation activities.			Start of Project Construction activities. Boundary Wall, foundation, Sanitary Landfill, Leachate Treatment Plant, Compost Pad, Waste to Compost Plant Building, RDF Plant etc. **(with subject to environment clearance**)		10% completion of civil works	20% completion of civil works	30% completion ofcivil works	40% completion of Civil Works	50% completion of Civil Works	70% completion of Civil Works	90% completion of Civil Works and completion of SLF
5	Dabwali - Sirsa **ULBs:** Sirsa Dabwali Ellenabad Kalanwali Rania	Condition precedent: Handover of relevant documents & sites			Condition precedent: Financial Closure & Procurement of equipments/ vehicles etc.		Condition precedent: Start of Collection and Transportation activities along with Source Segregation activities.		Start of Project Construction activities. Boundary Wall, foundation, Sanitary Landfill, Leachate Treatment Plant, Compost Pad, Waste to Compost Plant Building, RDF Plant etc. **(with subject to environment clearance**)		10% completion of civil works	20% completion of civil works	30% completion ofcivil works
6	Jind	Condition precedent: Handover of			Condition precedent: Financial Closure &		Condition precedent: Start of Collection and		Start of Project Construction		10% completio	20% compl	30% completi

Sr.	Cluster	Jan	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
	ULBs: Jind Kaithal Kalayat Narwana Rajound Uchana Assandh	relevant documents & sites			Procurement of equipments/ vehicles etc.		Transportation activities along with Source Segregation activities.		activities. Boundary Wall, foundation, Sanitary Landfill, Leachate Treatment Plant, Compost Pad, Waste to Compost Plant Building, RDF Plant etc. **(with subject to environment clearance**)		n of civil works	etion of civil works	on ofcivil works

14.3 ISWM Plan for Year 2021

Proposed Monthly Milestone for Development of Waste Processing Site Under ISWM Cluster Project

Sr.	Cluster	Jan	Feb	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
1	Fatehabad - Bhuna **ULBs:** Fatehabad Bhuna Ratia Tohana Uklana Mandi	Commissiong of the Waste to Compsot/RDF Plant												
2	Ambala - Karnal **ULBs:** Ambala Thanesar Shahabad Pehowa Cheeka Karnal Gharaunda Indri Nilokheri Nissing Pundri Tarori	70% completion of civil works	80% completion of civil works and completion of SLF	90% completion ofcivil works	95% completion of civil works	100% completion of civil works and completion of installation of pre-processing unit , Start of Power plant installation	Commissioning of Pre-processing plant		60% completion of Power Plant	70% completion of Power Plant	80% completion of Power Plant	90% completion of Power Plant	100% completion of Power Plant by 20th Month	Trial Run and Commissiong of Power Plant

Sr.	Cluster	Jan	Feb	Feb	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec
3	Hisar **ULBs:** Hisar Barwala Hansi Narnaul Siwani	100% of completion of Civil Works and start of Installation of plant equipments	100% completion of installation of plant equipments		Commissiong of the Waste to Compsot/RDF Plant		Commissiong of the Waste to Compsot/RDF Plant							
4	Dabwali - Sirsa **ULBs:** Sirsa Dabwali Ellenabad Kalanwali Rania	40% completion of Civil Works	50% completion of Civil Works	70% completion of Civil Works	90% completion of Civil Works and completion of SLF	100% of completion of Civil Works and start of Installation of plant equipments	100% completion of installation of plant equipments		Commissiong of the Waste to Compsot/RDF Plant		Commissiong of the Waste to Compsot/RDF Plant			
5	Jind **ULBs:** Jind Kaithal Kalayat Narwana Rajound Uchana Assandh	40% completion of Civil Works	50% completion of Civil Works	70% completion of Civil Works	90% completion of Civil Works and completion of SLF	100% of completion of Civil Works and start of Installation of plant equipments	100% completion of installation of plant equipments		Commissiong of the Waste to Compsot/RDF Plant		Commissiong of the Waste to Compsot/RDF Plant			

15. Plan for e-waste management by HSPCB/ULBD.

Present Scenario

Rapid growth of technology, upgradation of technical innovations, and a high rate of obsolescence in the electronics industry have led to one of the fastest growing waste streams in the world which consist of end of life electrical and electronic equipment product such as : Refrigerator, Washing machines, Computers and Printers, Televisions, Mobiles, Ipods etc. many of which contain toxic materials.

The main sources of electronic waste in India are the government, public and private (Industrial) sectors approx. 70%. The contribution of individual house hold is 15% and rest being contributed by manufacturers.

There are **24 no. of authorized dismantlers/recyclers of E-waste** with treatment capacity of 6773 MT/month in the State. Presently these E-waste dismantlers/recyclers are treating 495 MT/month of E-waste and have sufficient capacity to treat the E-waste manifolds than the E-waste received presently for treatment. The details of the authorised E-waste dismantlers and recylers alongwith their compliance status is attached at **Annexure-11**.

Action points to be implemented

Sr. No.	Action points	Concerned Stakeholders	Present status	Action to be taken	Target time
1.	Inspection of E-waste recycler/ dismantlers	HSPCB	The inspection of E-waste units are carried out by Regional officers at the time of grant of authorization and as mandatory inspections	Holistic inspection of E-waste recycler/ dismantlers vis-a-vis E-Waste Rules will be conducted.	31.03.2019
2.	Inventorization of bulk consumers of e waste	HSPCB	RO have been asked to inventorise the Bulk waste of electrical/ electronic items	Inventory of Bulk waste of electrical/ electronic items to be created	31.03.2019
3.	Study regarding E-waste generation in the State.	HSPCB	No such study carried out	A study will be given to any expert of the field to access the actual quantity of E-waste generated from the State.	31.03.2019

16. Plan for plastic waste management by HSPCB/ULBD.

Draft Policy and Plan for plastic waste management has been prepared by the ULBD and accordingly plastic waste shall be collected from un-organized sectors and from house hold/commercial sectors. The challans are issued to the violators.

Action plan has been prepared by ULB Department for Plastic Waste Management and target dates have been given for each towns are given as under:-

Sr.No	Name of MC	Mechanism of Plastic Waste Management	Target Date
1	MC Hisar	180 Nos of Racpicker has been registered in area of Municipal Corporation, Hisar for segregation of Plastic. Segregated Plastic is being sold to the factory in District Fatehabad by Ragpicker.	30.09.2019
2	MC Tohana		31.05.2019
3	MC Jakhal Mandi		31.05.2019
4	Pehowa	Will Start on 30.03.2019	30.09.2019
5	Cheeka	31.03.2019	31.03.2019
6	Dabwali	30.06.2019	30.06.2019
7	Kaithal		31.03.2019

17. Plan for Bio-Medical Waste Management.

There are 3412 number of Health Care Facilities (HCFs) in the State including 2410 number Bedded HCFs and 1061 number Non Bedded HCFs. In all Bedded HCFs of State total numbers of Beds are 48357. Total Bio Medical Waste (BMW) generated by all HCFs is 11662.91 Kg/day (i.e. 213.12 gram per bed per day). For the collection and disposal of this BMW, there are 11 no. of authorized Common Bio Medical Waste Treatment Facilities (CBWTDF). All the HCFs must have to do agreement with these CBWTDFs for disposal of their Bio Medical Waste. Total Incineration Capacity of these CBWTFs is 1650 Kg/hr. All the CBWTDFs have provided online continuous monitoring system on their incinerator for monitoring of their emission standards. All the CBWTF have already upgraded their incinerator to meet revised emissions standards as per MOEF Notification 2016. All the CBWTFs have provided GPS on transportation vehicle used for collection of BMW from HCFs to track the movement of vehicles from HCF to CBWYTDF facility.

A State Level Advisory Committee has been constituted by Govt. of Haryana regarding Bio Medical Waste Management Rules, 2016 vide order dated 25.4.2018. 1st Meeting of State level Advisory Committee was held on 16.8.2018 under the Chairmanship of ACS, Health Department, Haryana to review the compliance of conditions of BMW rules, 2016.

All the CBWTFs are inspected on quarterly basis by the concerned Regional Officer. Health care facilities are also inspected by Regional officers at the time of grant of authorization and as mandatory inspections. The status of inspections is enclosed as **Annexure-12**.

Proposed Action Points

Sr. No.	Action Point	Concerned Stakeholders	Present Status	Action to be taken	Time Target
1.	Implementation of the Barcode system	CBWTDFs and HCFs	The CBWTDFs are doing agreement with service providers for Bar coding.	Establish a Bar-Code System for bags or containers containing bio-medical waste to be sent out of the premises by HCFs and CBWTDFs	27.3.2019
2.	Gap analysis study of of CBWTDFs	HSPCB, CBWTDFs	Sanction has been accorded to PGIMER, Chandigarh for study.	Gap analysis study with respect to coverage area of BMW generation and projection over a period of next ten years	31.08.2019
3.	Quarterly inspection of CBWTF	HSPCB, CBWTDFs	Quarterly inspection of CBWTF has already conducted by concerned Regional Officer. 01 no. CBWTF was found non-complying. The status of	Show cause notice issued to M/s Maruti Bio Medical Waste Plant, Vill. Hetampura,	31.01.2019

			these CBWTFs is attached as **Annexure-12**.	Bhiwani for non-compliance on 28.12.2018. Unit removed deficiencies and submitted reply of SCN which will be verified shortly.	
4	up- gradation of incinerators as per BMW Rules, 2016.	HSPCB	All the CBWTFs have already upgraded their incinerators	The inspection regarding verification of up- gradation of incinerators at the site of CBWTDFs will be carried out.	31.03.2019
5.	All the HCFs like Veterinary Hospitals as per definition of BMW Rules, 2016 will be covered under the ambient of the Rules	HSPCB, HCFs	Regional officers are doing inspections and also asked to Animal Husbandary department to provide the list of veterinary hospitals. One No. Of Veterinary hospital i.e. Veterinary Poly Clinic, Near S.P residence, Hansi Road, Bhiwani inspected on 23.10.2018 and found non complying BMW rules 2016.	A SCN has already been issued to the said unit.	31.03.2019
6.	GPS on transporting vehicles of CBWTFs	HSPCB, CBWTFs	GPS already installed by CBWTF on transporting vehicles	To be connected with HSPCB server	31.03.2019

18. Hazardous Waste Management in Haryana

The inventory of hazardous waste generating industries and hazardous waste generated has been prepared out by the Haryana State Pollution Control Board in the State. Currently, there are around 3941 industries generating hazardous waste of the order of approximately 58829.43 42 Tonnes per annum. All these industries have been given authorization under HOWM Rules, 2016 for generation of 64896.63 tonnes total wastes per annum.

The inventory has also brought out detailed information on quantum of waste in terms of recyclable, reusable, landfillable and incinerable components.

As per the Hazardous Waste Rules, industries have to store hazardous waste properly, and in accordance with authorization issued by HSPCB. The Hazardous Waste either has to be disposed in captive or common Treatment, Storage and Disposal Facility (TSDF) available in the State, or incinerated in a captive incinerator of its own, or in the common TSDF having incineration facility, based on type of waste.

At present, there are 35 recyclers of non-ferrous metal wastes/used oil/ waste oil registered/authorized under the Hazardous Waste Management Rules. The capacity registered/authorized for re-refining/ recycling of used oil & waste oil is 127882.5 MTA; that for non-ferrous metal wastes other than lead is 229022 Tonnes per annum and for lead based waste is 207822 Tonnes per annum. Registrations/Authorization have been granted to 117 no. of recycling units based on their processing facilities for environmentally sound re-processing technologies.

Safe disposal of hazardous waste

A Common Hazardous Waste Treatment & Disposal Facility has been developed at Pali (Faridabad) by Haryana Environment Management Society with the assistance of State Govt. and HSPCB, which is being operated by M/s Gujarat Enviro Protection and Infrastructure (Haryana) Pvt. Ltd. Waste processing capacity of the facility is 25000 MTs/per annum including incineration having incinerator of capacity 12 to 14 tons per day with the estimated life of 30 years of the landfill site. The above common facility has been equipped with laboratory facilities to verify waste characteristics so as to decide upon treatment and disposal options including secured land filling or incineration. The facility has also developed the preprocessing arrangements for the incinerable wastes which is further sent for co-processing in the cement kilns. The facility has its own effluent treatment plant based on zero liquid discharge and also air pollution control measures installed on the incinerator with online monitoring devices.

The industries of the State are sending their Hazardous Waste other then recycling waste, to the facility under agreement with the operator of the facility, for disposal of the same in the secured land fill or for the incineration purpose.

The collection and transportation of the Hazardous Waste is done by the operator of the facility itself to bring the same to the facility for its treatment and safe disposal in

environmentally sound manner. The vehicle used for transportation of Hazardous Waste is equipped with GPS system for online tracking of the same.

Proposed Action Plan Hazardous Waste Management in the State

Sr. No.	Action Point	Concerned Stake Holders	Present status	Proposed action	Time target
1.	Awareness Programmes	HSPCB/ Operator of CTSDF/ HEMS/Industrial Associations	The awareness activities including workshops are being organized by the Board from time to time.	Quarterly meetings with all industrial associations at District level to sensitize the industries about the Rules including waste minimization technologies and disposal facility.	Ongoing activity to be started from 01.02.2019.
2.	Inspection of CTSDF	HSPCB	Quarterly inspections being done.	Regular inspection will be done to ensure the compliance of environmental safe guards and standards and alongwith CPCB guidelines followed by strict action in case of default.	Quarterly (as per inspection dated 10.12.2018 CTSDF found complying)
3.	Inspection of recycling facilities	HSPCB	Inspection carried out at the time of authorization or in case of any complaint.	Six monthly inspections to be done to ensure the compliance of environmental safe guards and standards and alongwith CPCB guidelines followed by strict action in case of default.	Six month
4.	Online tracking of Hazardous Waste	HSPCB/ Operator of CTSDF/ Recyclers of Hazardous Waste	• GPS system has been provided on transporting vehicles of operator of CTSDF but not connected with server of the Board. • GPS system not provided on transporting vehicles of recyclers/co-processors of Hazardous Waste.	Online tracking system is under development. Online tracking system is under proposal.	28.02.2019 30.06.2019
5.	Manifest system for movement of Hazardous Waste	HSPCB/ Operator of CTSDF/ Industries	Manifest system is not being followed holistically by the units.	Manifest system will be made compulsory by all units generating or transporting of Hazardous Waste.	31.03.2019
6.	Strengthening of Infrastructure and manpower.	HSPCB/ Government	• Proposal is pending with Government for approval of manpower. • Creation of testing facilities in the Laboratories is under proposal.	• Persuasion with the Government for sanction of the posts. • Creating testing facilities in the Laboratories of the Board for Hazardous Waste.	31.03.2019 31.08.2019

19. Agriculture Practices

19.1 Crop Diversification/Inter Cropping

Diversification in Agriculture refers to the shift from the regional dominance of one crop to regional production of a number of crop, to meet ever increasing demand of cereals, pulses, vegetables, fruits, oil seeds, fibers, and grasses. It aims to improve soil health and dynamic equilibrium of the agro- ecosystem. Crop diversification is intended to promote ethnological innovation with sustainable agriculture and enable farmers to choose crop alternatives for increasing productivity and income. The over exploitation of ground water in the original green revolution States has occurred due to three number of reasons:

a) A continuous cultivation of water guzzling crop in rice wheat cropping system.
b) Ground water withdrawal has outpaced its recharge that take place from annual precipitation.
c) The method of irrigation in the rice and wheat crop result in excess watering and wastage of water.
   In addition to above, micro irrigation system namely, Sprinkler and Drip irrigation couldn't find farmers' acceptance in the original green revolution States to the required extent.

The scope of Crop Diversification Program (CDP) is determined on the basis of total area under rice and sugarcane exceeding 50,000 hect. in a district. In our State, 10 number of districts (Paddy- Wheat Rotation System) have been indentified under CDP keeping in view the above said criteria. The program of crop diversification envisions the following long term goal:-

a) Reduction of the area water guzzling crops.

b) Induction of technological innovation for establishing alternate crops for sustainable agriculture.

c) Resource conservation, restoration of water table, reduction in soil fatigue and pollution levels besides sustaining enhanced farm income.

There are four number of activates covered under Crop Diversification Program (CDP) as followings:-

i) **Cluster demonstration of alternate crop:** Cluster Demonstration of Maize, Pluses, Pigeon Pea (Arhar), Urd, Cotton, Agro Forestry System as a sole crop and inter cropping with Agro forestry system displayed on farmers field by providing financial assistance.

ii) **Farm mechanization and value addition:** Different farm implements like maize planter, multi crop planter, spray pumps, raised bed planter, zero till seed cum fertilizer drip and lazer land leveler are distributed among the farmers on subsidized rates.

iii) **Site specific activities:** Underground Pipelines and Distribution of Dhaincha seed are promote for water saving as well as improving of soil health by providing financial assistance to the farmers.

iv) **Contingency for awareness, tanning, implementation and monitoring etc:** Awareness activities like Kisan Melas, Kisan Goshthies are conducted for disseminating information for the promotion of different activities along with monitoring and evaluation of the scheme.

The Crop Diversification Program (CDP) is a sub scheme of Rashtriya krishi Vikas Yojana (RKVY) and was started from 2013-14 with 100% assistance by Govt. of India. The funding pattern has been changed from 100% to 60:40 (Centre: State) w.e.f. 2015-16. The 10 districts (Ambala, Yamuna Nagar, Kurukshetra, Kaithal, Karnal, Panipat, Sonepat, Jind, Faridabad and Sirsa) are covered under CDP (RKVY) in the State. The State is also promoting crop diversification in the districts other than the CDP (RKVY) by implementing a state scheme viz "Scheme for Promotion of Crop Diversification in Haryana".

There is regular decline of 1.0 Meter water table per year in the Paddy growing areas because to produce 1 Kg of Rice about 3000 Litre of water is required. As we are cultivating Paddy in 13 lac hectare, so it is our prime objective to replace Paddy with some less water consuming crops such as Maize. We are regularly promoting Crop Diversification as an alternate crop of Rice since 2013-14 and able to cultivate Maize as an alternate crop of Rice is about 13000 hectare. Last year we have grown Maize in more than 18000 hectare by replacing Paddy. The Department is regularly planning to diversify a sizable area of Paddy by propagation of Maize. The productivity of Maize is very high and the left over portion in the form of straw may be utilized in preparation of silage as one of the nutritive stuff for the animals. If proper procurement system of Maize could be introduced, there is no doubt that we can replace paddy by maize upto 40% of the total paddy grown area, Following are the year wise/scheme wise expenditure incurred by the department is as under:-

Crop Diversification Programme

Sr. No.	Year	CDP(RKVY)		CDP(State Plan)	
		Budget Released	Expenditure	Budget Released	Expenditure
1	2013-2014	49.25	49.25	5.15	4.99
2	2014-2015	58.10	58.01	8.00	5.13
3	2015-2016	82.91	55.11	4.00	3.86
4	2016-2017	28.28	25.70	4.00	3.47
5	2017-2018	12.58	12.57	6.59	6.59

6	2018-2019	5.02	2.51(Tentative)	20.00	20.00

Note:-

The Department has also planned through a project "Climate Resilience Building in Rural Areas through Crop Residue Management-Sanction under NAFCC for Haryana State" for promotion of Maize Crop by distributing the recommended Maize variety seed of high productivity free of cost subject to a maximum cost of Rs. 5000/- per hectare)2 hectare maximum per farmer) as Crop Diversification in 10 districts (Ambala, Yamuna Nagar, Kurukshetra, Kaithal, Karnal, Panipat, Sonepat, Jind, Faridabad and Sirsa) for replacement of paddy which also leads to significant water conservation in view of the depleting ground water level. Following are the year wise/scheme wise expenditure incurred by the department is as under:-

Climate Resilience Building in Rural Areas through Crop Residue Management

Sr. No.	Year	Total Cost/Fund Released by NABARD	Expenditure
1.	2018-2019	7.56	5.99

19.2 Water Efficient Agriculture Practices

The major demand for river water is for Irrigation purposes and accordingly the State of Haryana has taken initiatives for water efficient farming practices which are given in succeeding paras and these are expected to reduce the pressure on river water.

(A) Pilot Project for installation of solar/grid powered micro irrigation infrastructure on sewage treatment plants for utilizing treated water for Irrigation.

With a view of augmenting water of assured supply to the every field, a new intervention has been proposed for the reuse of treated waste water from the existing Sewage Treatment Plants for the use of water in the best alternative which will help in enhancing the irrigation. Working on these lines this pilot project has been prepared on over exploited & critical blocks by selecting STPs of Ladwa, Shahabad and Pehowa towns for irrigation. The farmers of the are to be benefited from this water have already formed Water User Associations and also given an undertaking to the effect that their area, to be covered under this project, is not covered by any canal command and they are willing to adopt this technology. The common Micro Irrigation Infrastructure will be provided for each STP outlet for supplying pressurized water supply at farm gate by providing pumping unit (grid/solar powered), filtration, HDPE pipe network etc. the water will be provided under pressure of 2-

2.5 Kg/cm^2 So that farmers may utilize this for sprinkler and drip system. Farmers will be provided hydrant for every 4 acres or less if the holding of the farmers is less than four acres. In this manner the treated water, which was otherwise going unutilized in drain, will be put to proper use. It is also reported that sewage water from all these STPs is being properly monitored and tested by Public Health Engineering Department and parameters of this treated water meet with the standards for irrigation.

ADVANTAGES OF THE PROJECTS

1. New area will be brought under irrigation with optimum utilization of the available surplus water.
2. The project will encourage use of Micro Irrigation technologies.
3. Saving of power & diesel for farmers.
4. Increase in yield as nutrient rich water will be supplied.
5. The water, which was otherwise going waste, will be put to proper use.
6. No land acquisition will be involved.

Accordingly, a project has been prepared for using the treated water in Irrigation in district Kuruksheta. A common infrastructure has been provided with the following components in the command are of each outlet to be covered under Model Command Area of Jal Kranti Abhiyan:-

1. Water storage tank near outlet head.
2. Pumping Unit (Grid/Solar Powered).
3. Filtration units.
4. HDPE pipe network.
5. Hydrant/Outlet assembly.
6. Valves

Drip/Sprinkler irrigation sets will be provided 2 no./per 15 HP pump and individual farmers can also install the drip/sprinkler sets in their farm holdings by availing the benefits of subsidy from the State Horticulture/Agriculture Departments as per their existing schemes of promoting the Drip/Micro Sprinkler Systems.

The cost of common infrastructure has been worked out as Rs. 109000/- (Approx.) per hectare of CCA and the total estimated cost of the project is Rs. 3.65 Crore. Detail list of site wise schemes taken up is as under:-

Sr. No.	**Name of District**	**Name of Block**	**CCA in Hectare**	**Cost {CCA (hct.) X 1.09 lakh}**
1.	Kurukshetra	Pehowa	76	8676084
2.	Kurukshetra	Ladwa	63	7192017
3.	Kurukshetra	Shahabad	151	17238009
		Total	**290**	**33106110**

=33106110

Add 1% Contingency Chares = 165531

Add 15% Tender Premium = 3310611

=36582252

SALIENT FEATURES

- Total Cost of Project — Rs. 3.65 Crore
- CCA to be covered in Acre/Ha. — 715/290
- No. of Sprinkler sets — 01 No./ 15 HP pump
- Benefit Cost Ratio — 1.3:1
- Total number of schemes — 3
- Number of Districts/Villages covered — 1/5
- Name of villages: Pehowa- (Pehowa, Morthli, Bhatt Majra), Ladwa- (Baraichpur) & Shahabad-(Chhapra).

(B) Project of Recycle and Ruse of Treated Wastewater for Irrigation Purpose in Fatehabad, Hisar, Sirsa & Jind Districts of Haryana.

Project was prepared under the guidelines of the scheme for "Ïncentivization Scheme for Bridging Irrigation Gap (ISBIG) of Ministry of water Resources, River Development and Ganga Rejuvenation, govt. of India" under components infrastructure for conveyance and additional treatment of municipal and industrial wastewater for augmenting water for the farm use "Project Under newly created Irrigation Efficiency in phasing during the financial year 2018-19 to 2020-2021 for amounting in Rs. 235.94 Crore only.

This office planned to carry out the work of Recycle and Reuse of Treated Wastewater of Irrigation Purposes from the STPs of Fatehabad, Sirsa, Hisar and Jind districts having the capacity 29.50, 15.00, 22.50 & 20.00 MLD respectively amounting to Rs. 87.00 Crore in 1st phase as planned for the year 2018-19. The estimate for this project will be prepared on the basis of already approved item rates of CADA for re-use of wastewater which are the part of the estimate and remaining item rates will be prepared on the basis of HSR and market rates. Thereafter, e-tender will be called on EPC basis towards successful commissioning plus 1 year of assured performance demonstration after commissioning and comprehensive O & M of the schemes for 3 years thereafter. A new concept A.P.O.P treatment technology for Advanced Photo Oxidation processes at STPs be adopted an intervention for disinfection, removal of endocrine disruptors and other hazardous compounds. This intervention is essentially required because all the composition of the waste water has been addressed effectively and efficiently by the MBBR & SBR treatment technologies except toxic chemical and pathogens. A high concentration of pathogens such as viruses, becteria, helminthes eggs and fecal coliforms have the potential to cause diseases if present in a human host insufficient quantity.

District wise lit of STPs provided in the project

Sr. No.	Name of District	Name of STO	Capacity of STP (In MLD)	Treatment Technology
1.	Ambala	Barara	6.00	MBBR
2.	Ambala	Narayangarh	5.00	MBBR
3.	Bhiwani	Badra	10.00	MBBR
4.	Bhiwani	Kairu	10.00	MBBR
5.	Charkhi Dadri	Charkhi Dadri	5.00	MBBR

6.	Faridabad	Balhabgarh	18.00	MBBR
7.	Gurugram	Behrampur	50.00	MBBR
8.	Hisar	Hansi	12.50	MBBR
9.	Hisar	Hisar, Sector 3	10.00	MBBR
10.	Jhajjar	Jhajjar	5.50	MBBR
11.	Jhajjar	Salhwas	5.00	MBBR
12.	Jind	Jind	15.00	MBBR
13.	Jind	Narwana	5.00	MBBR
14.	Rewari	Rewari	6.50	MBBR
15.	Rewari	Rewari	8.00	MBBR with Dual Mode Filter
16.	Kaithal	Gulha	10.00	SBR
17.	Kaithal	Kaithal	10.00	SBR
18.	Fatehabad	Fatehabad	10.00	MBBR
19.	Fathehabad	Tohana	10.00	MBBR
20.	Fatehabad	Jakhal	3.00	SBR
21.	Fatehabad	Ratia	6.50	MBBR
22.	Karnal	Karnal	10.00	SBR
23.	Karnal	Karnal	8.00	MBBR
24.	Mahendergarh	Nangal Chaudhary	6.50	MBBR
25.	Mahendergarh	Narnaul	7.50	MBBR
26.	Mewat	Punhana	4.50	MBBR
27.	Mewat	Nuh	3.60	MBBR
28.	Panipat	Panipat	25.00	SBR
29.	Palwal	Hathin	4.50	MBBR
30.	Panchkula	Kalka	4.75	MBBR
31.	Panchkula	Pinjor	5.00	MBBR
32.	Rohtak	Rohtak	10.00	MBBR
33.	Sirsa	Sirsa	15.00	SBR
34.	Sonipat	Sector 23	10.00	MBBR
35.	Ghaggar Nagar	Radaur	3.50	MBBR
	Total		**338.85**	

(C) INSTALLATIN OF COMMUNITY BASED SOLAR/GRID POWERED MIRCO IRRIGATON INFRASTRUCTURE IN EXISTING CANAL COMMANDS

The Pilot Project has been prepared by CADA for Rs. 30.60 Crore with provision for installation of community based MI schemes in commands of the 14 different canal outlets spread over 13 different district of the State covering area 2231 Hectare. The concept of community based micro-irrigation has been introduced in the first instance on pilot basis on some of the canal outlets in the command of the ongoing CADWM Projects. Common Micro Irrigation infrastructure will be provided for each canal outlet command for supplying pressurised water supply at the farm fate of each farmer of the outlet chak instead of constructing lines filed channels. Community based water storage tank, pumping unit (Grid/solar powered), filtration unit, HDPE pipe network, hydrant/outlet assemblies, valves, etc. shall be will be constructed by the department. Drip/Sprinkler irrigation sets will be installed by the individual farmers in their farm holdings by availing the benefits of subsidy from the State Horticulture/Agriculture Departments as per their existing schemes of promoting the Drip/Sprinkler Systems.

Water User Associations (WUA have been framed for all the water courses. The WUAs have committed to provide land for construction of community pond for storing water from outlet and supplying further to individual farmers. Further the management of the water at outlet will be completely done by the shareholders. The WUAs will help in creating healthy and cordial atmosphere between the shareholders themselves. Moreover, this will also help in developing a sense of ownership amongst the shareholders and also facilitate implementation of warabandi. A better co-ordination will emerge between the end users and the CADA department for planning, execution and monitoring of the pilot project thereby initiating proper transfer of management to farmers.

The Solar Power Systems to be installed on the various schemes under the project are proposed to be connected with the utility power grid so that the energy generated by the solar modules, whenever not required for operation of the pumping system or is in excess of requirement, can be sent to the Utility Grid and when the solar power system in producing lesser power than needed for operation of the pumping system or is not producing any power at all, additional power for operation of the pumping system can be drawn from the Grid. The provision has also been made for interconnection of the solar power systems with the utility power grid through 11 KV independent feeder lines from the nearest Sub Stations for each scheme with provision of import/export (BI-directional) meter. The excess energy produced from the solar power systems and transferred to the utility power grid will be credited on the rate mutually agreed between the Department/WUA and DISCOM as per Government Policy against the power supplied from the utility grid.

The project will help in making an assessment of the workability of the proposed model in the State and evaluating its actual impact and benefits. The project will demonstrate to the farmers of the State the value of water and help in changing their mindset and motivating them to adopt the water efficient MI technology in canal commands on a large scale.

The main objectives of the project are to improve water use efficiency and increase crop productively. The water use efficiency will be achieved by adopting integrated approach in water management:-

- Supply management - By increasing the available supply by reduction in conveyance losses.
- Demand Management - By increasing the field application efficiency with the use of water efficient Sprinkler & Drip Irrigation technology.

Detail list of sites:-

Sr. No.	Name of District	Name of villages	Name of outlet	Outlet RD	CCA in acre	CCA in Hectare
1	Kurukshetra	Gumthala Garhu	Sandhola Minor	25220/L	147	59
2	Kaithal	Kakrala Anayat,	Paharpur Minor	44600/R	417	169

		Kakeor Majra				
3	Sirsa	Shahpuria	Gegorani Minor	45800/R	705	285
4	Hisar	Masudpur	Singhwa Disty	25300/L	392	159
5	Ambala	Mallour	Mallour Disty	5775-R	138	56
6	Jind	Behbalpur	Ramkali Minor	53620-L	98	40
				Total		

Date of completion of the Project is 31.12.2018.

20. Increasing the Water Storage Capacity

The construction of ponds/dams/reservoir along the rivers has been explored and the action taken so far in this regard has been given by the Irrigation Department with future course of action. This will helping maintaining. The same has been given in the table. The State Government as also link the village ponds with nearby existing channels for revival of ponds. The number of ponds for each circle have been given in the table:-

Sr. No.	Bhud Dam	Khetpurali Dam	Tributary of Tangri Nadi
1	Panta and Tallanwali Nadi (Tributary of Tangri Nadi)	Tributary of Tangri Nadi	Tributary of Tangri Nadi
2	6440.00 Acre-ft	3266.79 Acre-ft	2834.66 Acre-ft
3	209 acres	113 acres	108.5 acres
4	21 Nos.	7 Nos.	-
5	9525 acres CCA	10780 acre combined with Dudhgarh	8176 acres CCA
6	1. Bahadurpur 2. Gadwan 3. Alisherpur Majra 4. Ramgarh 5. Chholi 6. Katarwall 7. Jogiwara 8. Manakpur 9. Bari Lalhari 10. Chhoti Lalhari 11. Bankat 12. Chantpur 13. Manipur 14. Khanuwala 15. Tugalpur 16. Barauli Majra 17. Arjan Majra 18. Kot Basawar Singh 19. Kot Mushtarka 20. Ghisarpari	1. Bhud 2. Kambala 3. Lashkarwala 4. Kherwali 5. Parwala 6. Murad Nagar 7. Jaintipur 8. Shampur 9. Penjawala 10. Kazimpur 11. Manak Tabra 12. Batwal 13. Bhandaru 14. Dhanda 15. Sukhdarshanpur 16. Khatauli 17. Rahawar 18. Barwala (part) 19. Batawar 20. Bhagwanpur21. Nayagaon	1. Khetpurali 2. Dulupur 3. Ganeshpur 4. Ratewali 5. Dabkauli 6. Kanauli 7. Alipur
7	Haryana	Haryana	Haryana
8	Required	Required	Required
9	Rs. 107.75 Crore	Rs. 43.90 Cr.	Rs. 47.00 Cr.
10	0.86:1	1.97:1	0.86:1
11	Feasibility report submitted by WAPCOS and is under examination in field	Feasibility report submitted by WAPCOS on 05.09.2018 and is under examination in field	Feasibility report submitted by WAPCOS and is under examination in field

Progress report of ponds sanctioned by Department & Panchyat Department under HRDFA													
Sr. No.	**Name of the circle**	**Name of District**	**Np. Of Village Ponds**	**Tender called / allotted**	**Work in progress**	**Completed**	**Yet to Start**	**Not feasible**	**Tender to be called**	**Not Required**	**Amount Sanctioned**	**Amount Released by HRDFA**	**Amount released by Irrigation Department**
1	YWS Circle Jind	Jind	6	6	0	0	6	0	0	0	3005378	3005378	0
2	BWS Circle Hisar	Hisar	9	9	3	4	2	0	0	0	18783000	11759000	9230932
3	BWS Circle Kaithal	Kaithal	7	7	2	4	0	1	0	0	19903976	12695882	7266594
4	BWS Circle Sirsa	Sirsa	45	35	0	23	2	14	0	6	43104000	43373000	17842637

21. Greenery Development Plan

The action plan for greenery development in towns along river Ghaggar.

HSVP

Plantation carried out/to be carried out by HSVP in its area						
Sr. No.	**Name of U/E**	**Plantation done**			**Plantation to be done**	
		Year 2015-16	**Year 2016-17**	**Year 2017-18**	**Year 2018-19**	**Year 2019-20**
1	Hisar	6000	3500	4770	7500	6000
2	Adampur	100	100	150	100	0
3	Agroha	0	0	0	200	0
4	Hansi	300	1550	200	1500	1000
5	Jind	5022	2840	4925	1700	1700
6	Narwana	50	0	0	100	100
7	Safidon	0	0	500	2000	2000
8	Sirsa	3395	3972	4065	5000	5000
9	Kalanwali	85	615	250	200	200
10	Ellenabad	75	0	205	100	100
11	Dabwali	50	0	0	0	0
12	Fatehabad	1590	615	1925	1000	1000
13	Ratia	50	0	0	0	0
14	Tohana	110	0	0	0	0
15	Bhattu	1310	640	710	0	0
16	Panchkula	4485	11238	6929	5000	6000
17	Ambala	3289	3800	2317	1500	500
18	Shahabad	180	155	0	0	0
19	Pehowa	639	125	0	0	0
20	Naraingarh	10	125	0	0	0
21	Kurukshetra	4448	3430	2050	2000	2500
22	MTS Gulha	210	100	0	0	0
23	MTS Pundri	85	100	0	0	0
24	Kaithal	10690	675	2120	1000	1000
25	**Total**	**42173**	**33580**	**31116**	**28900**	**27100**

Forest Department

Plantation to be undertaken on river banks by Forest Department

Sr. No.	**Name of Division**	**No. of planted/ proposed to be planted on river banks**				**Remarks (Please indicate approximate expenditure for planting each plant)**
		Planted		**Proposed**		
		2017-18	**2018-19**	**2018-19**	**2019-20**	
1.	Morni-Pinjore	0	5000 (TP)	0	110000 (15X22 size 20000 (TP) (30X45)	11000000/-@100/- per plants (15X22) 7500000 @ 300/- per plant (30X45) Total=18500000
2.	Ambala	0	0	0	0	15000 TP with tree guards (Rs. 440 per plant with mtc and Rs. 1400 per tree guard Total Rs. 1840 per

						plant G. Total Rs. 27600000 14000 P. Bag Plants @ Rs. 154 per plant with Mtc. Total Rs. 2156000
3.	Kurukeshetra	0	0	0	0	No. of Tall Plants 250 per RKM @ 350/- per plant
4.	Ghaggar Nagar	115750	132000	0	57500	Tall Plant =Rs. 349/- per plant Small Plant= Rs. 99/- per plant (As per cost norms year 2018-19)
5.	Panipat	52911	90360	33000	22000	As per cost norms
6.	Sonepat	1000	1500	0	50000	Rs. 32 per plants (Bunds targets) Rs. 349 per plants (cities)
7.	Sirsa	22500	0	0	23000	350/- per plants
8.	Fatehabad	0	0	0	27000	14475671
9.	Gurugram	0	0	0	0	Rs. 350/-per plant
10.	Faridabad	0	2700 (TP)	0	10000 (TP)	Rs. 350/- per plant

Plantation to be undertaken cities by Forest Department.

Sr. No.	**Name of Division**	**No. of plants planted/ proposed to be planted in the cities**				**Remarks (Please indicate approximate expenditure for planting each plant)**
		Planted		**Proposed**		
		2017-18	**2018-19**	**2018-19**	**2019-20**	
1.	Morni-Pinjore	0	0	0	5000 (TP) (30X45)	11000000/-@100/- per plants (15X22) 7500000 @ 300/- per plant (30X45) Total=18500000
2.	Ambala	6000	8000	0	15000	15000 TP with tree guards (Rs. 440 per plant with mtc and Rs. 1400 per tree guard Total Rs. 1840 per plant G. Total Rs. 27600000 14000 P. Bag Plants @ Rs. 154 per plant with Mtc. Total Rs. 2156000
3.	Kurukeshetra	9000	5500	0	20000	No. of Tall Plants 250 per RKM @ 350/- per plant
4.	Ghaggar	4500	4000	0	5000	Tall Plant =Rs. 349/- per

	Nagar					plant Small Plant= Rs. 99/- per plant (As per cost norms year 2018-19)
5.	Panipat	1500	5500			As per cost norms
6.	Sonepat	2500	5500	0	7500	Rs. 32 per plants (Bunds targets) Rs. 349 per plants (cities)
7.	Sirsa	9000	4500	0	10500	350/- per plants
8.	Fatehabad	24000	2250	750	2500	14475671
9.	Gurugram	3000 (TP)	15000 (TP)	0	50000 (TP)	Rs. 350/-per plant
10.	Faridabad	12000 (TP)	6250 (TP)	0	6000 (TP)	Rs. 350/- per plant

22. Ground Water Management

All the task force have been mandated to prevent the exposure of ground water with industrial effluent. The industries found reverse pumping are closed and power of closure has already been delegated to the Regional Officers of HSPCB.

The STFs hvave also been directed to close down the contaminated sources of drinking water and also place sign boards nearby the respective contaminated source regarding "Water is not fit for Drinking ourpose". The monthly action taken reports are being sought in this regard from District Level Task Forces constituted in this matter by the State Government.

Monitoring of Ground water
Panchkula

Sr. No.	Sampling location	Analysis Report No.	Date of collection	Colour & Intensity	Odor	Human activities around station	pH (6.5 to 8.5 limit)	Conductivity	BOD mg/l	COD mg/l	Ammonia	Total Dissolved Solids mg/l (500 limits)	Total Suspended Solids mg/l
1	Hand Pump 500 m from Ghaggar River Near Pir Khwaja At Sarala Khurd.	4897, 11.05.2018	2.05.2018	Colourless	**Odourless**	--	7.92	2330	ND	33.2	ND	1416	15
2	Hand Pump 12 meter away from River Ghaggar at Vill- Tiwana	4592, 11.05.2018	2.05.2018	Light Yellowish	Odourless	--	7.71	666	ND	16.4		410	7
3	Borewell of Sh. Ram Chander Leather Units, Shiwala Mandi, Ambala.	4652, 14.05.2018	7.05.2018	Colourless	Odourless	--	7.51	8800	ND	139.2		5300	ND
4	Hand Pump no. 1 at Vill-Tiwana	4598, 11.05.2018	2.05.2018	Colourless	Odourless	--	7.94	2350	ND	48.4		1422	15
5	Hand Pump Sh. Mehar Singh, at vil- Rampur, Ambala	4593, 11.5.2018	2.05.2018	Yellowish	Odourless	--	8.26	840	ND	14.8		520	ND
6	Hand Pump Sh. Surinder Singh At vill Rampur, Ambala	4594, 11.05.2018	02.05.2018	Colourless	Odourless	--	8.26	835	ND	15.6	ND	530	ND
7	Tubewell NO. 2, Sector-24, HUDA, Panchkula	5365, 14.11.2018	02.11.2018	Colourless	Odourless	--	7.54		ND	8.8			ND
8	Tubewell NO. 3, Sector-24, HUDA, Panchkula	5319, 12.11.2018	30.10.2018	Colourless	Odourless	--	7.21		ND	17.2			ND
9	Tubewell No. 1, (HUDA division No. 3) Near dumping ground sector-23, Panchkula	5318, 12.11.2018	30.10.2018	Colourless	Odourless	--	6.91		ND	14			ND
10	Tubewell No. 5, Sector-24, HUDA, Panchkula	5321, 12.11.2018	30.10.2018	Almost Colourless	Almost Odourless	--	7.18		ND	14.8			ND
11	Tubewell No. 4, Sector-24, HUDA, Panchkula	5320, 12.11.2018	30.10.2018	Almost Colourless	Almost Odourless	--	7.02		ND	15.6			ND

Sr. No.	Sampling location	Analysis Report No.	Date of collection	Colour & Intensity	Odor	Human activities around station	pH (6.5 to 8.5 limit)	Conductivity	BOD mg/l	COD mg/l	Ammonia	Total Dissolved Solids mg/l (500 limits)	Total Suspended Solids mg/l
12	Tubewell No. 9, Sector-4, HUDA, Panchkula	5366, 14.11.2018	02.11.2018	Almost Colourless	Odourless	--	7.52		ND	10.4			ND
13	Tubewell No. 6, Div-II, Sector-24, Panchkula	5322, 12.11.2018	30.10.2018	Almost Colourless	Almost Odourless	--	6.9		ND	16	--		ND

	Sampling location	Total Hardness mg/l (300 limit)	Fluoride mg/l (1.0 limits)	Chloride mg/l (250 limits)	Sulphate mg/l (200 limits)	Calcium mg/l (75 limits)	Magnesium mg/l	Nickel mg/l	Copper mg/l (0.05 limits)	Chromium mg/l (0.05 limits)	Zinc mg/l (5 limits)	Lead mg/l(0.05 limits)	Iron mg/l (0.3 limits)
1	Hand Pump 500 m from Ghaggar River Near Pir Khwaja At Sarala Khurd.	684		262		149.6	75.33	ND	ND	-	0.017		0.04
2	Hand Pump 12 meter away from River Ghaggar at Vill- Tiwana	222		20		71.2	10.692	ND	ND		0.007		ND
3	Borewell of Sh. Ram Chander Leather Units, Shiwala Mandi, Ambala.	1070		2630		252	106.92	ND	ND		0.054		0.062
4	Hand Pump no. 1 at Vill-Tiwana	554		262		121.6	60.75	ND	ND		0.017		0.028
5	Hand Pump Sh. Mehar Singh, at vil- Rampur, Ambala	242		68		76	12.636	ND	ND		0.015		ND
6	Hand Pump Sh. Surinder Singh At vill Rampur, Ambala	200		72		41.6	23.328	ND	ND		0.014		ND
7	Tubewell NO. 2, Sector-24, HUDA, Panchkula	266		14		65.6	24.786	ND	ND		0.076		0.38
8	Tubewell NO. 3, Sector-24, HUDA, Panchkula	242		38		56	24.786	ND	ND		0.002		0.07

	Sampling location	Total Hardness mg/l (300 limit)	Fluoride mg/l (1.0 limits)	Chloride mg/l (250 limits)	Sulphate mg/l (200 limits)	Calcium mg/l (75 limits)	Magnesium mg/l	Nickel mg/l	Copper mg/l (0.05 limits)	Chromium mg/l (0.05 limits)	Zinc mg/l (5 limits)	Lead mg/l(0.05 limits)	Iron mg/l (0.3 limits)
9	Tubewell No. 1, (HUDA division No. 3) Near dumping ground sector-23, Panchkula	107.2		32	-	88	11.664	ND	ND		0.037		ND
10	Tubewell No. 5, Sector-24, HUDA, Panchkula	184		28		42.4	18.954	ND	ND		0.006		0.05
11	Tubewell No. 4, Sector-24, HUDA, Panchkula	180		32		48.8	14.094	ND	ND		0.007		0.08
12	Tubewell No. 9, Sector-4, HUDA, Panchkula	248		20		62.4	22.356	ND	ND		0.095		0.06
13	Tubewell No. 6, Div-II, Sector-24, Panchkula	182	--	20	--	52.8	12.15	ND	ND	-	0.009	-	0.06

Jind

Sr. No.	Samplimg location	Analysis Report No.	Date of collection	Colour & Intensity (5 limits)	Odor	Human activities around station	pH (6.5 to 8.5 limit)	Conductivity	BOD mg/l	COD mg/l	Ammonia	Total Dissolved Solids mg/l(500 limits)	Total Suspended Solids mg/l
1	**Outlet of Hand pump installed by PHED near Rani Talab, Taxi Stand, Jind**	4420	28-Mar-18	Colourless	Odourless	Adjacent Commercia Market	7.56	305	Not Detected	8.8	Not Tested	190	4
2	Tubewali no. 1, Near upstream Ghaggar River at Village Chiali	4924	24.07.18	Colourless	Odourless	agriculture Fields	ND		13.2	8.70		ND	5
3	Tubewali no. 1, Near upstream Ghaggar River at Village Chiali	5036	21.08.18	Colourless	Odourless	agriculture Fields	ND		17.6	8.08		ND	7

Sr. No.	Samplimg location	Analysis Report No.	Date of collection	Colour & Intensity (5 limits)	Odor	Human activities around station	pH (6.5 to 8.5 limit)	Conductivity	BOD mg/l	COD mg/l	Ammonia	Total Dissolved Solids mg/l(500 limits)	Total Suspended Solids mg/l
4	Tubewali no. 1, Near upstream Ghaggar River at Village Chiali	5156	27.09.18	Colourless	Odourless	agriculture Fields	ND		29.6	8.38		ND	ND
5	Tubewali no. 1, Near upstream Ghaggar River at Village Chiali	5295	29.10.18	Colourless	Odourless	agriculture Fields	ND		18.8	6.76		ND	ND

Sr. No.	Samplimg location	Total Hardness mg/l (300 limit)	Fluoride mg/l (1.0 limits)	Chloride mg/l (250 limits)	Sulphate mg/l (200 limits)	Calcium mg/l(75 limits)	Magnesium mg/l	Nickel mg/l	Copper mg/l (0.05 limits)	Chromium mg/l(0.05 limits)	Zinc mg/l (5 limits)	Lead mg/l(0.05 limits)	Iron mg/l (0.3 limits)
1	**Outlet of Hand pump installed by PHED near Rani Talab, Taxi Stand, Jind**	174	Not Tested	16	Not Tested	50.4	11.664	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	
2	Tubewali no. 1, Near upstream Ghaggar River at Village Chiali												
3	Tubewali no. 1, Near upstream Ghaggar River at Village Chiali												
4	Tubewali no. 1, Near upstream Ghaggar River at Village Chiali												
5	Tubewali no. 1, Near upstream Ghaggar River at Village Chiali												

Hisar

Sr. No.	Sampling location	Analysis Report No.	Date of collection	Colour & Intensity	Odor	Human activities around station	pH (6.5 to 8.5 limit)	Conductivity	BOD mg/l	COD mg/l	Ammonia	Total Dissolved Solids mg/l (500 limits)	Total Suspended Solids mg/l
1	Near Budhwana Ghat, Amandeep Tubewell, Farwai Kalan, Sirsa	258	19.11.18		odorless		8.6		ND	ND		92	12
2	Near point source, Village Kelania, Sirsa	259	19.11.18		odorless		8		ND	ND		120	14
3	Near point source, Gopal tubewell, Sirsa	260	19.11.18		odorless		8.3	-	ND	ND		120	12
4	Near Bridge, Sirsa - Dabwali Road, Sirsa, 1025 GH-1	261	19.11.18		odorless		8		ND	ND			
5	Near Chandpur Syphen, GH-2 1026, Fatehabad	262	19.11.18		odorless		8	-	ND	ND		190	14
6	Near ottu wier (1887) Sirsa	263	19.11.18		odorless		7.6	-		ND		170	16

Sr. No.	Sampling location	Total Hardness mg/l (300 limit)	Fluoride mg/l (1.0 limits)	Chloride mg/l(250 limits)	Sulphate mg/l (200 limits)	Calcium mg/l (75 limits)	Magnesium mg/l	Nickel mg/l	Copper mg/l (0.05 limits)	Chromium mg/l(0.05 limits)	Zinc mg/l (5 limits)	Lead mg/l (0.05 limits)	Iron mg/l(0.3 limits)
1	Near Budhwana Ghat, Amandeep Tubewell, Farwai Kalan, Sirsa	190	ND	210	16	130	60	ND	ND	ND	ND	ND	ND

Sr. No.	Sampling location	Total Hardness mg/l (300 limit)	Fluoride mg/l (1.0 limits)	Chloride mg/l(250 limits)	Sulphate mg/l (200 limits)	Calcium mg/l (75 limits)	Magnesium mg/l	Nickel mg/l	Copper mg/l (0.05 limits)	Chromium mg/l(0.05 limits)	Zinc mg/l (5 limits)	Lead mg/l (0.05 limits)	Iron mg/l(0.3 limits)
2	Near point source, Village Kelania, Sirsa	100	ND	120	12	70	30			ND	ND		ND
3	Near point source, Gopal tubewell, Sirsa	130	ND	90	10	90	40			ND			
4	Near Bridge, Sirsa - Dabwali Road, Sirsa, 1025 GH-1												
5	Near Chandpur Syphen, GH-2 1026, Fatehabad	140	ND	190	16	100	40			ND	ND		ND
6	Near ottu wier (1887) Sirsa	170	ND	180	16	110	60				ND		ND

Steps taken by HSVP for rain water harvesting / conservation of water/avoid exploitation of ground water

1. Roof Top Rain Water Harvesting Scheme

On 31.10.2001, a notification regarding making roof rain water harvesting-Conversation & Artificial recharge of ground water compulsory in Govt. buildings/HSVP Buildings, including all the private houses/buildings to be constructed in Urban Estates, in future having roof top surface area 100 Sqm. more was issued. Notification has already been circulated vide No.9945-46 dated 29.11.2001 (copy enclosed) and the areas/Urban Estates in Haryana where this notification has been made applicable have also been notified vide letter no.1200 dated 10.12.2001. (copy enclosed).

Zonal Administrator/Estate Officers of HSVP ensure that occupation certificate is not issued in the absence of the implementation of above cited notification.

Further, station wise detail of rain water harvesting systems constructed by HSVP is as under:

Sr.No.	Name of U/E	No. of rain water harvesting wells constructed
1.	Panchkula	22
2.	Kaithal	2
3.	Kurukshetra	5
4.	Jind	5
	TOTAL	**47**

2. Installation of Dual Button Flushing Cistern

Haryana Govt. has issued notification on 13.08.2014, making installation of dual button cisterns (capacity 10/5 Litre and 6/3 Litre) mandatory for all types of plot holders (new buildings) in HSVP areas in addition to all Govt. Buildings and Buildings in licensed areas. Occupation certificate shall not be issued in the absence of dual button flushing cisterns in these buildings.

3. Graded Tariff for Economic Use Of Water

The graded water tariff has been implemented in various Urban Estates in Haryana for economical domestic use of water.

4. Reuse of Tertiary Treated / Recycled Water

To avoid exploitation of ground water, tertiary treated water is being used for irrigation/flushing purpose in some of Urban Estates of HSVP. Efforts are being made for its implementation in other Urban Estates also.

23. Open defecation in Districts.

Haryana (Urban) has been declared ODF first time on 2nd October, 2017 by the Ministry of Housing and Urban Affairs under Swachh Bharat Mission (Urban). Later on all the Urban Local Bodies except Faridabad, 2nd time also declared Open Defecation Free by the process of independent evaluation through the agency appointed by MoHUA. To evaluate the sustainability of

ODF, Ministry has been started recertification process of all ULBs as per the protocols of ODF third times and in this process 28 ULBs already recertified ODF out of 80.

To achieve this status Department of Urban Local Bodies has been taken various steps such as motivate community for construction of Individual House Hold Latrines (IHHL), Construction and renovation of Community Toilets and Public Toilets seats. Till date 61412 IHHL have been constructed by the individuals and Government of Haryana released Rs. 14000 to each individuals household for construction of toilets as subsidy (Rs. 4000/- from Central Government and Rs. 10000/- from State Government). Directorate of Urban Local Bodies has fixed the target of

65000 IHHL which are to be completed by September, 2019. Similarly, to stop open defecation, DULB also took initiatives for construction and renovation of Community Toilets and Public Toilets seats for providing the toilets facilities for community which have not their own toilets. Total 10122 (97%) community and Public toilets seats have been constructed against the target of 10394 seats, whereas more than 200 seats of community and public toilets are under construction. Department has been fixed its target to construct all CT/PT before 30th September, 2019.

Action Plan to Complete the 100% Target of Construction of Individual House Hold Latrines (IHHL) Community Toilets (CT/ Public Toilets (PTs) Seats

Target	**IHHL**	**CT-PT Seats**
	65000	**10122**
Target Achieved as on December, 2018	61412	10122
Target to be Achieved	**3588**	**272**
Jan-19	100	10
Feb-19	150	20
Mar-19	250	25
Apr-19	350	30
May-19	400	35
Jun-19	500	40
Jul-19	550	35
Aug-19	600	35
Sep-19	700	45
Total	**3600**	**275**

24. Septage Management/Disposal by sewages through tankers.

The decentralized STPs planned along the drains shall also be planned for receiving untreated sewage by tankers for treatment. The practice of disposing sewage in drains through the tanker is going on in many town/cities. Municipal Corporation Gurugram has finalized the rate contract for disposal of sewage through Suction Tanker. Under this Septage Management Plan, the sewage of unauthorised colonies and septic tanks shall be listed through Suction taken and disposed-off at 35 No. identified locations of STP/MPS. This will be monitored by online monitoring system through QR code.

The Urban Local Bodies Department has given the target dates for implementation of the septage management plan and the detail is given for each town in the table as under:-

Sr.No	Name of MC	Target Date of Commissioning of Tanker System
1.	Hisar	10 Nos of Tanker has been registered in area of Municipal Corporation, Hisar for Septage Management. Septage tanker are being disposed to nearest STP of PHED/HSVP. Target Date is 28.02.2019
2.	Tohana	30.04.2019
3.	Jakhal Mandi	30.04.2019
4.	Pehowa	30.05.2019
5.	Ambala	15.11.2019
6.	Cheeka	31.03.2019
7.	Dabwali	30.05.2019
8.	Kaithal	31.03.2019
9.	Panchkula	30.06.2019

25. Involvement of Civil Society/Creation of awareness

For involving the general public and other stakeholders, it has been decided to create a website by HSPCB giving a provision for inviting suggestions, comments and feedback. A redressal system will also be provided through concerned Departments and action taken on the suggestions/complaints in the portal.

HSPCB has been spreading awareness on environment consciousness with the involvement of public including students, women, factory workers, industrialist and their employees and various other sections of the civil society.

Activities including awareness seminars, competitions, rallies, etc. involving the Eco Clubs of Children, NGOs, MPs/MLAs/Councilors/Sarpanches/Panches and General Public are organized by the Regional Officers (ROs) with the help the local administration spread across the entire year.The list of HSPCB ROs and their jurisdiction is as under for Ghaggar Action Plan

Regional Office	District
Panchkula	Panchkula, Ambala and Kurukshetra
Jind (at Bhiwani)	Jind and Kaithal
Hissar	Hissar, Sirsa and Fatehabad

Initiatives/Planning around the same for the year 2019 has already been initiated. Details/Plan on the same listed as below:-

1. **Education Camps:** Haryana Forest Development Corporation Limited (Haryana Govt. undertaking) has been entrusted with conducting Environment Education Camps for School Children, farmers, women groups with a proposal for organizing 70 nature education camps @ Rs. 35000/- per camp in coming months i.e. total amount of Rs. 24,50000/-. This was a much-appreciated activity conducted in 2018 in form of 119 camps involving close to 2000 people from the civil society.
2. **Public Awareness Campaign through Media focused on**
    - Diwali
    - Wheat Stubble Burning
    - Paddy Straw Burning

    Newspapers: Publishing series of advertisements in leading Newspapers circulated in the state of Haryana, on the said theme ahead of and during the season of Diwali, Stubble Burning and Harvesting.

    Radio: Radio Campaigns on FM in Haryanvi dialect, for spreading awareness among the masses including the farmer families and others.

3. **Free Distribution of Non-Plastic Carry Bags** at Subzi Mandi for spreading awareness on discouraging plastics and its ill effects.
4. **Pamphlet / Flyer distribution** in schools/ restaurants/ cinema houses / petrol pumps educating people toward the hazard of pollution and environment unfriendliness.
5. **Celebration of International Environment/Related days** are planned to be held all the 22 districts with the help of local administration by involving Eco Club children's, industrialists, under privileged children with the help of NGO's, local MP/MLA and general public as per the below schedule. These activities may be conducted at Schools/colleges/public places including religious centres and social places

Period	Occasion	Date	Activities
Jan-Mar	**World Wetlands Day**	**Feb 2, 2019**	• Guided Nature Walk at a Wetland viz., Lake/River, etc
	World Water Day	**March 22, 2019**	• Awareness Session • Painting Contest • Slogan Contest on Save Water or related theme
Apr-Jun	**World Earth Day**	**April 22, 2019**	• Awareness Sessions • Essay Contest • Poster Making Contest On Save Earth or related theme
	World Environment Day	**June 5, 2019**	Celebrated as *Environment Month* from May 15 to June 15. • State level function • district level functions • education sessions on environment consciousness with special focus around '**paddy stubble burning'** at Block level • quiz contest • tree plantation drives • skit's at religious/social/public places, • environment related movies /documentary screening, • bicycle rally's, • mini marathon Further activities may be added focused around the declared theme of the year, declared ahead of the World Environment Day.

Jul-Sep	**World Ozone Day**	**September 16, 2019**	• Information and Awareness sessions on '**Ozone layer depletion'** • Expert Talk on Ozone Layer Protection for General Public • On the spot contests on related theme.
Oct-Dec	**World Ecology Day**	**November 1, 2019**	• Public Awareness session • On the spot painting & essay writing competition on Go Green, or related theme.
	National Environment Month		• State Level Function of Environment • Screening of Environment Consciousness message Movies/ Telefilms in Schools, Colleges, Universities and Public/Social places • Street Plays on environment and related theme to be performed, recorded and broadcasted digitally • Weekly Awareness Sessions / drives at District level to be organised on environment friendliness involving the civil society would be organised.

6. **Suggestions from Public:** For involving the general public and other stakeholders, it has been decided to create a provision in the website of HSPCB for inviting suggestions, comments and feedback for a innovative ways of pollution control and environment improvement. A redressal/recognition system will also be provided through concerned departments on action taken on the suggestions/complaints in the portal.

7. **Public involvement through STF:** It has also planned to involve eco-clubs through the Education Departments. HSPCB will be issuing advertisements on such sensitive issues periodically. Besides, the SESTF, constituted at District Level will also actively involve public participation and in redressal of issues relating to pollution and cleaning of the rivers/drain one of the drives as mentioned under is proposed to be undertaken in one or two towns in river catchment every 15 days.
    - Swatchta Abhiyan in towns.
    - Swatchta Abhiyan / Nature walk on River Banks.
    - Mini Marathon in towns.

- Swatchta Abhiyan at various Religious places.

8. **Reaching out to the masses digitally:** HSPCB is also exploring reaching out to the masses through digital media / social media and related approved channels for spreading awareness on environment and related issues.

26. Organizing of Health Camps.

The Health Department has been directed to organize health camps in areas prone to water pollution in the catchment of diver Ghaggar and to get profile studies conducted on specific diseases observed in the locality, through reputed institutions. The Health Department has prepared an action plan for organization of health camps as given below in the table. Health Department shall review the status and progress in the case in its monthly meeting.

District Panchkula: Action Plan for Health Camps in year 2019.

Sr. No.	Name of Village	Days of Camp
1.	Chandikotla	3rd Saturday of Jan, 2019
2.	Chandimandir	3rd Saturday of Feb, 2019
3.	Burjkotia	3rd Saturday of Mar, 2019
4.	Patan	3rd Saturday of April, 2019
5.	Ambwala	3rd Saturday of May, 2019
6.	Amarawati	3rd Saturday of June, 2019
7.	Koshalya Hutt	3rd Saturday of July, 2019
8.	Khatakmangoli	3rd Saturday of Aug, 2019
9.	Nada Sahib	3rd Saturday of Sept., 2019
10.	Old Panchkula	3rd Saturday of Oct., 2019
11.	Gate No. 3&4	3rd Saturday of Nov., 2019
12.	Brij Hutt	3rd Saturday of Dec., 2019

Ambala District: Action Plan for Health Camps in year 2019.

Sr. No.	Name of CHC/PHC	Name of Village	Date of Health Camp
1.	PHC Majri	Bara	18.01.2019
2.	PHC Naggal	Brishangarh	17.01.2019
3.	PHC Naggal	Gorsian	24.01.2019
4.	PHC Noorpur	Shahpur	11.01.2019
5.	PHC Noorpur	Gasitpur	15.01.2019
6.	PHC Majri	Jalbera	22.02.2019
7.	PHC Naggal	Niharsi	05.02.2019
8.	PHC Naggal	Adomajra	14.02.2019
9.	PHC Naggal	Segta	21.02.2019
10.	PHC Majri	Kaula	23.03.2019

11.	PHC Naggal	Bhunni	14.03.2019
12.	PHC Majri	Mohra	26.04.2019
13.	PHC Naggal	Segta	04.04.2019
14.	PHC Naggal	Gorsia	18.04.2019
15.	PHC Majri	Dang Dehri	20.05.2019
16.	PHC Naggal	Segta	16.05.2019
17.	PHC Naggal	Bishangarh	23.05.2019
18.	PHC Majri	Lailana	21.06.2019
19.	PHC Naggal	Addomajra	20.06.2019
20.	PHC Naggal	Niharsi	13.06.2019
21.	PHC Majri	Shivala Mandi	27.07.2019
22.	PHC Naggal	Niharsi	02.07.2019
23.	PHC Majri	Durala	12.08.2019
24.	PHC Majri	Ladana	23.09.2019
25.	PHC Naggal	Adomajra	05.09.2019
26.	PHC Majri	Jandli	21.10.2019
27.	PHC Naggal	Segta	01.10.2019
28.	PHC Majri	Ghel	22.11.2019
29.	PHC Naggal	Bishangarh	04.11.2019
30.	PHC Majri	Tharwa	14.12.2019

Fatehabad District : Action Plan for Health Camps in year 2019.

Sr. No.	Proposed Camp Site CHC	Proposed Camp Site Village	Proposed date of health camp
1	Ratia	Mirana	01.10.2019
2	Ratia	Kanwalgarh	02.12.2019
3	Ratia	Kalotha	21.02.2019
4	Ratia	Lali	03.11.2019
5	Ratia	Babanpur	23.04.2019
6	Ratia	Lalwas	05.09.2019
7	Ratia	Baliyala	15.05.2019
8	Ratia	Alika	06.11.2019
9	Ratia	Kamana	25.06.2019
10	Ratia	Bhunderwas	07.10.2019
11	Ratia	Nathwan	08.06.2019
12	Ratia	Khairpur	19.08.2019
13	Ratia	Malwala	17.09.2019
14	Ratia	Ganda	22.10.2019
15	Ratia	Ward No. 4 & 5 Ratia	11.05.2019
16	Ratia	Gatta Factory	12.10.2019
17	Jakhal	Kasampur	17.01.2019
18	Jakhal	Narail	25.02.2019
19	Jakhal	Mussakhera	03.07.2019
20	Jakhal	Sidhani	04.03.2019
21	Jakhal	Sadhanwas	20.05.2019
22	Jakhal	Chandura	06.11.2019
23	Jakhal	Mundlian	15.07.2019
24	Jakhal	Dhani Babanpur	20.08.2019

25	Jakhal	Kasampur	09.10.2019
26	Jakhal	Sidhani	15.10.2019
27	Jakhal	Dhani Babanpur	20.11.2019
28	Jakhal	Chandpura	12.09.2019

Sirsa District: Action Plan for Health Camps in year 2019.

Sr. No.	Proposed Camp site	Month	Proposed date of Health Camp
1.	Bansudhar	January	11.01.2019
2.	Ottu		15.01.2019
3.	Jhorarnali	February	11.02.2019
4.	Ranga		15.02.2019
5.	Chamal	March	11.03.2019
6.	Chakbani		15.03.2019
7.	Musahibwala	April	11.04.2019
8.	Panihari		15.04.2019
9.	Kelnia	May	11.05.2019
10.	Nagoki		15.05.2019
11.	Chakrayian	June	11.06.2019
12.	Saharani		15.06.2019
13.	Mirpur	July	11.07.2019
14.	Farwai		15.07.2019
15.	Chaksahiba	August	09.08.2019
16.	Nejadela Kalan		16.08.2019
17.	Ahmadpur	September	11.09.2019
18.	Dhottar		16.09.2019
19.	Mojgarh	October	11.10.2019
20.	Khairekan		15.10.2019
21.	Kariwala	November	11.11.2019
22.	Mattar		15.11.2019
23.	Nakora	December	11.12.2019
24.	Bahambhoor		16.12.2019

28. Concluding Remarks

The above action plan has been prepared on specific action points after consulting all the stakeholder Departments of Haryana and they have also provided a specific time frame for every activity to bring down the pollution contributing to river Ghaggar. This will be reviewed by the Departments concerned, at their level, in every monthly meeting. Further, the progress of all the actions shall be reviewed by Administrative Secretary of Environment Department every month with the Secretaries / senior officers of all stakeholder Departments, where the progress vis-a-vis timelines will be reviewed. It has also been decided that a Quarterly Review meeting will be done at the level of Chief Secretary with the Administrative Secretaries concerned and the progress will be reported after every Quarterly Review Meeting, to the Monitoring Committee appointed by NGT and the status will be reported to NGT as well.

Annexure-1

Govt of Haryana
Environment Department

Order

Whereas the Hon'ble National Green Tribunal issued order dated 7.8.2018 in the matter of OA No. 138 of 2016 and OA No. 139 of 2016-titled Stench Grips Mansa's Sacred Ghaggar River and Yogender Kumar in the matter relating to pollution in Ghaggar River and observed that "the findings of the joint inspection report are that values of various parameters such as BOF,TSS, Deacal Coliform, Lead and Iron were beyond permissible limits at most of the locations in Himachal Pradesh, Haryana, Punjab and Chandigarh".

Whereas the Hon'ble NGT has also directed to prepare an action plan to prevent the discharge of untreated effluent and observed that;

"7 Having regard to the alarming situation depicted in the joint inspection report apart from perusal action as above, an action plan with firm timelines is required to be prepared for preventing discharge of untreated effluents in the river by setting up appropriate anti-pollution device such as STP/ETP/CETP or any other such instruments. Wherever required polluting units have to be closed. The action plan must be realistic and provide for speeding mechanism. The funds can be generated as per applicable schemes for STP/CETP. The objective of the action plan must be to ensure that the testing of the sample of the water is found to be consistent with the laid down standards within the targeted time. We are also of the view that it is necessary to involve civil society and not to leave the matter to be dealt with by the concerned officers alone "and

Whereas, the Hon'ble NGT has constituted "Executing Committee"compris8ing of Justice Pritam Pal, Former Judge, Punjab and Haryana High Court as Chairman and Sr. Scientist/Engineer from Ministry of Environment and Forests (MOED), New Delhi and Central Pollution Control Board, New Delhi 9CPCB) to execute the orders of the Hon'ble Tribunal in this matter.

Therefore, in compliance of the orders of the Hon'ble NGT dated 7.8.2018 Special Task Force (STF) are constituted as below:-

i) State Level Special Task Force (STF)

Sr. No.	Designation of Member
1.	Chief Secretary, Govt. of Haryana
2.	Administrative Secretary, Department of Environment, Govt. Of Haryana
3.	Administrative Secretary, Town and Country Planning Department, Govt. Of Haryana

ii) District Level Special Task Force (STF) for Panchkula, Ambala, Kurukshetra, Jind, Kaithal, Fatehabad, Hisar and Sirsa districts.

District Level STF	District Level STF
1.	Deputy Commissioner of concerned District

2.	Superintendent of Police of the concerned District
3.	Regional Officer of HSPCB having jurisdiction over the District
4.	Person nominated by District Judge of the concerned District

The following actions shall be ensured by the STFs concerned.

State Level Special Task Force (STF)

- The State level STF shall submit quarterly report on action taken during the quarter to Central Pollution Control Board. The first report submitted by 30.9.2018 and thereafter reports shall be submitted quarterly.
- It will also ensure that the quarterly ATRs are uploaded in the websites of Environment Department of Haryana and Haryana State Pollution Control Board (HSPCB).
- The State Level STF shall finalize the action plan with firm timelines and review the same periodically.
- The State Level STF shall co-operate and co-ordinate with the Executing Committee appointed by the Hon'ble Tribunal.

District Level Special Task Force (DSTF)

- The District Level STF shall identify all persons, responsible for violation of law and norms relating to pollution in Ghaggar River and the drains joining it.
- It shall also initiate civil and criminal action against the violators as well as those who fail to perform their duties in this regard and shield the culprits.
- The District Level STF shall submit a monthly report on all actions taken by it to the SLSTF, by any first week of every month.
- District Level STF shall also assist the SLSTF in preparation of the action plan and finalising the timelines.
- District Level STF shall involve Civil Society Organisations and public participations in preparing the action plan in all possible areas.
- District Level STF shall ensure periodic sampling of river water as well as ground water to check the water quality.

Dated, Chandigarh the
21st August , 2018

Devender Singh
Additional Chief Secretary,
Environment Department

Endst. No. 16/14/2018-3Env. **Dated 29.8.2018**

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

1. Chairman, Central Pollution Control Board (CPCB) with request to bring above order in Knowledge of the Executing Committee.
2. PS to Chief Secretary, Govt. of Haryana.
3. PS to Administrative Secretary, Department of Environment, Govt. of Haryana
4. PS to Administrative Secretary, Urban Local Bodies Department, Govt. of Haryana
5. PS to Administrative Secretary, Town and Country Planning Department, Govt. of Haryana
6. Deputy Commissioner, Panchkula.
7. Deputy Commissioner, Ambala.
8. Deputy Commissioner, Kurukshetra
9. Deputy Commissioner, Jind.

10. Deputy Commissioner, Kaithal
11. Deputy Commissioner, Fatehabad
12. Deputy Commissioner, Hisar
13. Deputy Commissioner, Sirsa
14. District and Session Judge, Panchkula with a request to nominate a person for the District Level Task force.
15. District and Session Judge, Ambala with a request to nominate a person for the District Level Task force.
16. District and Session Judge, Kurukshetra with a request to nominate a person for the District Level Task force
17. District and Session Judge, Jind with a request to nominate a person for the District Level Task force
18. District and Session Judge, Kaithal with a request to nominate a person for the District Level Task force.
19. District and Session Judge, Fatehabad with a request to nominate a person for the District Level Task force
20. District and Session Judge, Hisar with a request to nominate a person for the District Level Task force.
21. District and Session Judge, Sirsa with a request to nominate a person for the District Level Task force
22. Chairman, Haryana State Pollution Control Board, Panchkula
23. Member Secretary, Haryana State Pollution Control Board, Panchkula
24. Directory General, Environment Department, Haryana
25. Superintend of Police, Panchkula
26. Superintendent of Police, Ambala
27 Superintendent of Police, Kurukshetra
28 Superintendent of Police, Jind
29. Superintendent of Police, Kaithal
30. Superintendent of Police, Fatehabad
31. Superintendent of Police, Hisar
32. Superintendent of Police, Sirsa
33. Regional Officer of HSPCB having jurisdiction over the District

FA/ Copy of orders of Hon'ble NGT -sd-

Superintendent Environment
For Additional Chief Secretary to Govt. Haryana
Environment Department

Annexure-2

Quality of River Ghaggar

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
1	**Ghaggar river before meeting discharge of STP Sec-28 at Kakrali, Punjab. (Lat- 30.643124 ,Long-76.871828)**								
	2725dt. 09.02.2017	30.01.2017	8.03	7	30	22	ND	ND	-
	3095dt. 25.05.2017	17.05.2017	7.66	11	52.4	19	ND	3.4	-
	3293dt. 06.07.2017	30.06.2017	8.31	6	20.8	11	ND	5	-
	3761dt. 07.11.2017	27.10.2017	8.18	7	50	12	ND	2.8	-
	4293dt. 06.03.2018	28.02.2018	8.14	10	58.4	10	ND	3.08	-
	4603dt. 14.05.2018	03.05.2018	7.84	10	46.4	15	ND	4.4	-
	5066dt. 28.09.2018	21.09.2018	8.34	9	27.6	16	ND	3.92	-
	5340dt. 14.11.2018	31.10.2018	7.21	8	26.4	174	ND	3.36	-
	5485dt. 12.12.2018	30.11.2018	7.65	7	32.4	1494	ND	ND	-
2	**Ghaggar river after meeting discharge of STP Sec-28 at Kakrali, Punjab.(Lat- 30.639388 ,Long-76.872299**								
	2726, 09.02.2017	30.01.2017	8.06	14	49.6	14	ND	ND	-
	3094, 25.05.2017	17.05.2017	7.79	12	50	14	ND	3.2	-
	3291, 06.07.2017	30.06.2017	8.32	8	38.4	14	ND	6	-
	3759, 07.11.2017	27.10.2017	7.37	10	58	18	ND	3.36	-
	4291, 06.03.2018	28.02.2018	8.12	13	70	17	ND	4.48	-
	4601, 14.05.2018	03.05.2018	7.84	11	48.4	16	ND	5.4	-
	5064, 28.09.2018	21.09.2018	8.31	8	30.4	18	ND	3.36	-
	5338, 14.11.2018	31.10.2018	7.31	9	32.8	126	ND	3.36	-
	5484, 12.12.2018	30.11.2018	7.07	16	56.8	135	ND	14	-
3	**Ghaggar River before meeting Sukhna Choe at Vill- Bhankarpur, Punjab (Lat- 30.612935 ,Long-76.837602)**								
	2730dt. 09.02.2017	30.01.2017	8	8	34	50	ND	ND	-
	3108dt. 26.05.2017	19.05.2017	7.59	36	152.8	52	ND	7	-
	3296dt. 06.07.2017	30.06.2017	8	9	50.8	20	ND	4	-
	3764dt. 07.11.2017	27.10.2017	7.24	13	69.2	20	ND	2.24	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	4295dt. 06.03.2018	28.02.2018	7.66	40	182	51	2.5	6.72	-
	4606dt. 14.05.2018	03.05.2018	7.79	13	50.4	22	ND	5.5	-
	5069dt. 28.09.2018	21.09.2018	8.06	8	24.8	19	ND	3.92	-
	5343dt. 14.11.2018	31.10.2018	7.19	6	22.8	19	ND	3.36	-
	5488dt. 12.12.2018	30.11.2018	6.46	6	28	1339	ND	ND	-
4	**Ghaggar River after meeting Sukhna Choe at Vill- Bhankarpur, Punjab (Lat- 30.613448 ,Long-76.832026)**								
	2728dt. 09.02.2017	30.01.2017	7.15	38	150	180	2	ND	-
	3107dt. 26.05.2017	19.05.2017	7.52	17	82.4	26	ND	4	-
	3294dt. 06.07.2017	30.06.2017	7.7	13	62.4	27	ND	5	-
	3762dt. 07.11.2017	27.10.2017	7.22	26	110.4	36	2.5	4.48	-
	4294dt. 06.03.2018	28.02.2018	7.71	26	126.4	31	2.5	4.76	-
	4604dt. 14.05.2018	03.05.2018	7.53	17	84.8	23	ND	5.2	-
	5067dt. 28.09.2018	21.09.2018	7.82	32	105.2	36	2.5	4.48	-
	5341dt. 14.11.2018	31.10.2018	7.35	26	98.4	36	2	2.8	-
	5486dt. 12.12.2018	30.11.2018	7.62	16	80.4	1632	ND	9.52	-
5	**Ghaggar River before meeting Derabassi Drain near Vill- Bakkarpur (Punjab) (Upstream) (Lat-30.603196 ,Long-76.815684**								
	2856dt. 21.03.2017	14.03.2017	7.29	22	92.8	58	2	6.72	-
	3049dt. 08.05.2017	29.04.2017	7.37	32	130.8	43	2	4.6	-
	3160dt. 07.06.2017	31.05.2017	7.61	22	116.4	42	2.5	3.92	-
	3267dt. 06.07.2017	29.06.2017	7.85	21	102.4	31	2.5	3	-
	3733dt. 06.11.2017	26.10.2017	6.98	50	224.4	60	4.5	5.6	-
	4389dt. 02.04.2018	20.03.2018	7.64	12	68.8	21	ND	4.48	-
	4778dt. 19.06.2018	14.06.2018	7.54	34	187.6	38	3	11.76	-
6	**Ghaggar River after meeting Derabassi near Vill- Bakkarpur (Punjab). (Lat- 30.604185 ,Long-76.812126)**								
	2858dt. 21.03.2017	14.03.2017	7.09	40	228	82	3.5	11.2	-
	3051dt. 08.05.2017	29.04.2017	7.52	40	160	43	ND	7	-
	3162dt. 07.06.2017	31.05.2017	7.6	40	242.4	72	3.5	5.6	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	3269dt. 06.07.2017	29.06.2017	7.52	56	260	74	3.5	9	-
	3731dt. 06.11.2017	26.10.2017	6.96	23	110	33	ND	2.24	-
	4391dt. 02.04.2018	20.03.2018	7.74	26	120.8	31	ND	13.44	-
	4780dt. 19.06.2018	14.06.2018	7.54	46	262.4	40	3.5	16.8	-
7	**Ghaggar River before meeting Basauli Choe at Vill- Tepla (Punjab) (Lat- 30.444543 ,Long-76.748207)**								
	2862dt. 21.03.2017	14.03.2017	7.18	8	42.4	38	ND	5.04	-
	3055dt. 08.05.2017	29.04.2017	7.83	12	49.6	17	ND	NA	-
	3166dt. 07.06.2017	31.05.2017	7.56	8	40.8	14	ND	5.88	-
	3273dt. 06.07.2017	29.06.2017	7.35	15	62.4	28	ND	8	-
	3737dt. 06.11.2017	26.10.2017	6.98	15	60.8	27	ND	5.6	-
	4395dt. 02.04.2018	20.03.2018	7.72	10	48.4	13	ND	3.36	-
	4784dt. 19.06.2018	14.06.2018	7.73	9	46.8	14	ND	7.84	-
		Oct	Sample not collected due to nil flow in drain						
		Nov	Sample not collected due to nil flow in drain						
		Nov	Sample not collected due to nil flow in drain						
8	**Ghaggar River after meeting Basauli Choe at Vill- Tepla (Punjab) (Lat- 30.443014 ,Long-76.74863)**								
	2864dt. 21.03.2017	14.03.2017	7.47	14	74.4	60	ND	7.8	-
	3057dt. 08.05.2017	29.04.2017	7.78	20	96	38	ND	NA	-
	3168dt. 07.06.2017	31.05.2017	7.75	12	64.8	30	2	9.52	-
	3275dt. 06.07.2017	29.06.2017	7.39	30	110.4	58	2	10	-
	3739dt. 06.11.2017	26.10.2017	7.77	23	108	49	ND	7.84	-
	4397dt. 02.04.2018	20.03.2018	7.69	24	108	31	2	8.4	-
	4786dt. 19.06.2018	14.06.2018	7.78	26	128.4	30	ND	10.64	-
		Oct	Sample not collected due to nil flow in drain						
		Nov	Sample not collected due to nil flow in drain						
9	**Ghaggar river before meeting Jharmal Choe at Vill- Tiwana (Punjab) (Lat- 30.473597 ,Long-76.767947)**								
	2859dt. 21.03.2017	14.03.2017	7.5	14	74.4	21	2	4.48	-
	3052dt. 08.05.2017	29.04.2017	7.41	18	66.4	32	ND	10	-
	3163dt. 07.06.2017	31.05.2017	7.66	14	80.4	32	ND	6.16	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	3270dt. 06.07.2017	29.06.2017	8.25	15	80.4	43	2	6	-
	3734dt. 06.11.2017	26.10.2017	6.98	15	77.2	54	ND	6.16	-
	4392dt. 02.04.2018	20.03.2018	7.62	14	60.4	15	ND	5.04	-
	4781dt. 19.06.2018	14.06.2018	7.62	19	86.4	22	ND	8.96	-
		Oct	Sample not collected due to nil flow in drain						
		Nov	Sample not collected due to nil flow in drain						
10	**Ghaggar River after mixing Jharmal Choe, At- Vill- Tiwana, (Punjab) (Lat- 30.472978 ,Long-76.768948)**								
	2861dt. 21.03.2017	14.03.2017	7.43	28	131.2	58	2	15.4	-
	3054dt. 08.05.2017	29.04.2017	7.83	30	130	44	12.5	NA	-
	3165dt. 07.06.2017	31.05.2017	7.48	26	138.4	36	2.5	7.28	-
	3272dt. 06.07.2017	29.06.2017	7.5	38	162	62	2.5	12.3	-
	3736dt. 06.11.2017	26.10.2017	7.89	30	136.4	58	2	7.28	-
	4394dt. 02.04.2018	20.03.2018	7.77	26	130.4	32	2	10.08	-
	4783dt. 19.06.2018	14.06.2018	7.66	18	108.4	23	ND	12.88	-
	5262dt. 02.11.2018	22.10.2018	7.46	16	70.8	38	ND	8.4	-
11	**Ghaggar River before mixing Ghail drain at Rampur (Ambala) (Lat- 30.334705 ,Long-76.668041)**								
	2929dt. 07.04.2017	30.03.2017	7.58	8.2	36	10	ND	2.24	-
	3041dt. 05.05.2017	27.04.2017	7.62	14	66	31	ND	2.1	-
	3121dt. 02.06.2017	25.05.2017	7.89	9	46.4	16	ND	4	-
	3279dt. 06.07.2017	29.06.2017	7.3	9	40.4	16	ND	5	-
	3741dt. 06.11.2017	25.10.2017	7.77	10	48	21	ND	5.6	-
	4094dt. 07.02.2018	30.01.2018	7.44	22	110	24	ND	4	-
	4399dt. 02.04.2018	20.03.2018	7.78	15	82	21	ND	4.2	-
	4703dt. 05.06.2018	25.05.2018	7.16	8	34.4	20	ND	ND	-
	5004dt. 04.09.2018	22.08.2018	6.95	6	28	274	ND	3.92	-
	5160dt. 11.10.2018	28.09.2018	8.11	7	21.6	13	ND	3.36	-
	5240dt. 26.10.2018	16.10.2018	7.21	9	42.4	16	ND	-	-
	5265dt. 02.11.2018	22.10.2018	7.6	12	54	37	ND	8.4	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
12	**Ghaggar River after mixing Ghail Drain at Rampur (Ambala) (Lat- 30.331914 ,Long-76.666763)**								
	2928dt. 07.04.2017	30.03.2017	7.65	11.2	52	16	ND	3.36	-
	3040dt. 05.05.2017	27.04.2017	7.55	12	70	15	ND	3	-
	3120dt. 02.06.2017	25.05.2017	7.51	9.8	52.8	16	ND	3.8	-
	3278dt. 06.07.2017	29.06.2017	7.27	10	50.8	15	ND	5.2	-
	3962dt. 04.01.2018	27.12.2017	7.78	24	105.6	31	2.5	-	-
	4586dt. 11.05.2018	02.05.2018	7.99	11	48	14	ND	8	-
	4702dt. 05.06.2018	25.05.2018	7.66	14	50.8	19	ND	12.32	-
	5003dt. 04.09.2018	22.08.2018	7.62	7	28.8	214	ND	4.48	-
	5159dt. 11.10.2018	28.09.2018	8.03	8	30.8	17	ND	3.36	-
	5239dt. 26.10.2018	16.10.2018	7.2	12	50.4	20	ND	-	-
	5264dt. 02.11.2018	22.10.2018	6.73	17	104.8	121	2	4.48	-
	5466dt. 11.12.2018	29.11.2018	7.15	12..0	50.4	36	ND	-	-
13	**Ghaggar River before mixing Pachis Draha drain at Vill- Sarala Khurd (Patiala). (Lat- 30.304787 ,Long-76.628287)**								
	2926dt. 07.04.2017	30.03.2017	7.55	9	40	8	ND	3.08	-
	3044dt. 05.05.2017	27.04.2017	7.7	12	58	15	ND	5	-
	3124dt. 02.06.2017	25.05.2017	7.85	7.4	44.8	13	ND	4	-
	3282dt. 06.07.2017	29.06.2017	7.62	12	58.4	21	ND	4	-
	3744dt. 06.11.2017	25.10.2017	7.81	8.5	44.8	11	ND	3.92	-
	3966dt. 04.01.2018	27.12.2017	7.85	10	48	17	ND	-	-
	4097dt. 07.02.2018	30.01.2018	7.49	15	90	20	ND	4	-
	4402dt. 02.04.2018	20.03.2018	7.7	14	72	17	ND	5.6	-
	4589dt. 11.05.2018	02.05.2018	7.68	8	38.8	13	ND	9	-
	4706dt. 05.06.2018	25.05.2018	7.45	10	41.6	13	ND	12.88	-
	5007dt. 04.09.2018	22.08.2018	6.92	8	35.6	312	ND	3.92	-
	5163dt. 11.10.2018	28.09.2018	7.61	8	30.6	16	ND	2.8	-
	5243dt. 26.10.2018	16.10.2018	7.31	8	40.8	12	ND	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	5469dt. 11.12.2018	29.11.32018	7.23	10	42.8	42	ND	-	-
14	**Ghaggar River after mixing Pachis Draha drain at Sarala khurd (Patiala). (Lat- 30.305379 ,Long-76.626743)**								
	2924,07.04.2017	30.03.2017	8.1	12	66.4	14	ND	4.48	-
	3042,05.05.2017	27.04.2017	7.63	16	70.4	51	ND	6	-
	3122,02.06.2017	25.05.2017	7.69	9	54.8	15	ND	2	-
	3280, 06.07.2017	29.06.2017	7.08	13	64.4	21	ND	5	-
	3742, 06.11.2017	25.10.2017	7.81	9	45.2	20	ND	5.6	-
	3964, 04.01.2018	27.12.2017	7.92	14	70.4	25	ND	-	-
	4095, 07.02.2018	30.01.2018	7.69	19	100.1	25	2	4	-
	4400, 02.04.2018	20.03.2018	7.83	22	96.4	24	ND	5.04	-
	4587, 11.05.2018	02.05.2018	7.92	14	58.4	21	ND	10	-
	4704, 05.06.2018	25.05.2018	7.63	12	45.6	18	ND	14	-
	5005, 04.09.2018	22.08.2018	7.36	12	40.4	212	ND	8.48	-
	5161, 11.10.2018	28.09.2018	8.07	10	38.8	21	ND	3.92	-
	5241, 26.10.2018	16.10.2018	7.34	13	48.8	15	ND	-	-
	5467, 11.12.2018	29.11.2018	7.03	13	52.8	23	ND	-	-
15	**Ghaggar River before meeting river Markanda at Village Chiali. (Lat- 30.128079 ,Long-76.433011)**								
	2910dt. 06.04.17	28.03.17	7.69	13	58	39	ND	-	-
	3148dt. 07.06.17	30.05.17	7.68	8	32.4	21	ND	-	-
	3258dt. 06.07.17	29.06.17	7.8	10	48.8	21	ND	-	-
	3688dt. 18.10.17	11.10.17	7.91	9	42.8	16	ND	-	-
	3840dt. 28.11.17	20.11.17	7.72	8.5	40.8	16	ND	-	-
	4061dt. 30.01.18	17.01.18	7.92	9	40.8	12	ND	-	-
	4191dt. 01.03.18	21.02.18	7.54	11	54.4	15	ND	-	-
	4379dt. 02.04.18	20.03.18	7.8	12	54.8	13	ND	-	-
	4472dt. 20.04.18	11.04.18	7.27	9	40.8	14	ND	-	-
	4719dt. 19.06.18	29.05.18	7.8	8	32.8	14	ND	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	4830dt. 09.07.18	26.06.18	7.6	16	52.4	15	ND	-	-
	4938dt. 08.08.18	24.07.18	7.01	8	39.6	16	ND	-	-
	5015dt. 04.09.18	22.08.18	7.38	8	44.4	16	ND	-	-
	5147dt. 11.10.18	27.09.18	7.7	7	24.4	15	ND	-	-
	5309dt. 12.11.18	29.10.18	7.51	8	36.8	40	ND	-	-
	5437dt. 11.12.18	27.11.18	7.47	11	51.6	26	ND	-	-
16	**Ghaggar River after mixing Markanda River at village Dhandota. (Lat- 30.090167 ,Long-76.376183)**								
	2912 dt. 06.04.17	28.03.17	7.75	16	66.8	28	ND	-	-
	3013 dt. 05.05.17	27.04.17	7.3	13	58	40	2	-	-
	3150 dt. 07.06.17	30.05.17	7.87	13	56.4	24	ND	-	-
	3260 dt. 06.07.17	29.06.17	7.86	12	56.4	29	ND	-	-
	3690 dt. 18.10.17	11.10.17	7.94	14	52.8	30	ND	-	-
	3842 dt. 28.11.17	20.11.17	7.52	9	44.8	18	ND	-	-
	4063 dt. 30.01.18	17.01.18	7.79	10	53.6	14	ND	-	-
	4193 dt. 01.03.18	21.02.18	7.55	12	66.4	17	ND	-	-
	4381 dt. 02.04.18	20.03.18	7.96	19	64.4	13	2	-	-
	4474 dt. 20.04.18	11.04.18	7.36	12	48.4	20	ND	-	-
	4721 dt. 19.06.18	29.05.18	7.97	9	34.8	17	ND	-	-
	4832 dt. 09.07.18	26.06.18	7.43	13	56.8	14	ND	-	-
	4940 dt. 08.08.18	24.07.18	7.6	12	42.8	15	ND	-	-
	5017 dt. 04.09.18	22.08.18	7.12	11	42.4	15	ND	-	-
	5149 dt. 11.10.18	27.09.18	7.8	8	32.8	16	ND	-	-
	5311 dt. 12.11.18	29.10.18	7.52	14	58	58	ND	-	-
	5439 dt. 11.12.18	27.11.18	7.42	12	52.8	33	ND	-	-
17	**Ghaggar River before mixing, Patiala Nadi at Vill. Bhatia. (Lat- 30.078617 ,Long-76.244933)**								
	2913 dt. 06.04.17	28.03.17	7.76	15	59.2	34	ND	-	-
	3014 dt. 05.05.17	27.04.17	7.79	12	61.2	33	ND	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	3151 dt. 07.06.17	30.05.17	7.88	17	72	28	ND	-	-
	3261 dt. 06.07.17	29.06.17	7.75	14	72.4	17	ND	-	-
	3691 dt. 18.10.17	11.10.17	7.95	15.5	76	15	ND	-	-
	3843 dt. 28.11.17	20.11.17	7.45	10	58.4	27	ND	-	-
	4064 dt. 30.01.18	17.01.18	7.82	9	52.4	16	ND	-	-
	4194 dt. 01.03.18	21.02.18	7.68	10	56.4	15	ND	-	-
	4382 dt. 02.04.18	20.03.18	7.89	10	56.4	16	ND	-	-
	4475 dt. 20.04.18	11.04.18	7.74	9	40.8	17	ND	-	-
	4722 dt. 19.06.18	29.05.18	8.1	8	30.8	16	ND	-	-
	4833 dt. 09.07.18	26.06.18	7.93	14	56.4	15	ND	-	-
	4941 dt. 08.08.18	24.07.18	7.4	9	34.8	16	ND	-	-
	5018 dt. 04.09.18	22.08.18	7.22	12	54.8	18	ND	-	-
	5150 dt. 11.10.18	27.09.18	7.52	6	28.8	19	ND	-	-
	5312 dt. 12.11.18	29.10.18	7.5	7	32.8	35	ND	-	-
	5440 dt. 11.12.18	27.11.18	7.32	8	35.2	27	ND	-	-
18	**Ghaggar River after mixing of Patiala Nadi at Village Ratanheri. (Lat- 30.077417 ,Long-76.242367)**								
	2915 dt. 06.04.17	28.03.17	7.84	34	91.2	158	2	-	-
	3016 dt. 05.05.17	27.04.17	7.82	18	76.4	87	ND	-	-
	3153 dt. 07.06.17	30.05.17	7.95	40	160.8	52	3	-	-
	3263 dt. 06.07.17	29.06.17	7.78	27	121.6	58	3.5	-	-
	3693 dt. 18.10.17	11.10.17	7.94	25	115.6	26	2	-	-
	3845 dt. 28.11.17	20.11.17	7.3	50	190	62	3	-	-
	4066 dt. 30.01.18	17.01.18	7.76	30	162.4	40	2.5	-	-
	4196 dt. 01.03.18	21.02.18	7.58	28	152.4	32	2.5	-	-
	4384 dt. 02.04.18	20.03.18	8.01	30	140.8	48	2	-	-
	4477 dt. 20.04.18	11.04.18	7.51	22	84	31	2	-	-
	4724 dt. 19.06.18	29.05.18	7.72	24	114	29	2	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	4835 dt. 09.07.18	26.06.18	7.79	22	104	21	2	-	-
	4943 dt. 08.08.18	24.07.18	7.33	11	42.8	19	ND	-	-
	5020 dt. 04.09.18	22.08.18	7.14	25	124.8	32	2	-	-
	5152 dt. 11.10.18	27.09.18	7.09	11	41.6	28	ND	-	-
	5314 dt. 12.11.18	29.10.18	7.65	56	260.4	112	ND	-	-
	5442 dt. 11.12.18	27.11.18	7.31	20	90.8	100	ND	-	-
19	**Ghaggar River before mixiing Sagar Para Drain at Village Rasoli. (Lat- 29.905144 ,Long-76.169394)**								
	2916 dt. 06.04.17	28.03.17	7.71	12	59.2	35	ND	-	-
	3017 dt. 05.05.17	27.04.17	7.62	12	70.8	57	ND	-	-
	3154 dt. 07.06.17	30.05.17	7.79	20	76.4	25	ND	-	-
	3264 dt. 06.07.17	29.06.17	7.77	23	104.4	27	2	-	-
	3846 dt. 28.11.17	20.11.17	7.31	48	210	71	3	-	-
	4067 dt. 30.01.18	17.01.18	7.71	60	220.8	71	3.5	-	-
	4197 dt. 01.03.18	21.02.18	7.42	36	190	48	3.5	-	-
	4385 dt. 02.04.18	20.03.18	7.54	28	156.4	42	2.5	-	-
	4478 dt. 20.04.18	11.04.18	7.42	18	82.4	49	ND	-	-
	4725 dt. 19.06.18	29.05.18	7.94	17	74.4	23	ND	-	-
	4836 dt. 09.07.18	26.06.18	7.85	16	68.4	19	ND	-	-
	4944 dt. 08.08.18	24.07.18	7.18	28	120.4	40	2	-	-
	5021 dt. 04.09.18	22.08.18	8.32	16	70.4	21	ND	-	-
	5153 dt. 11.10.18	27.09.18	7.78	10	36.8	15	ND	-	-
	5315 dt. 12.11.18	29.10.18	8.45	52	182	110	ND	-	-
	5443 dt. 11.12.18	27.11.18	6.73	20	92.8	65	ND	-	-
20	**Ghaggar River after mixing of Sagar Para Drain at Village Rasoli. (Lat- 29.891673 ,Long-76.16892)**								
	2918 dt. 06.04.17	28.03.17	7.87	16	78	32	ND	-	-
	3019 dt. 05.05.17	27.04.17	7.95	55	260	172	6.5	-	-
	3156 dt. 07.06.17	30.05.17	8.16	40	172.4	48	2.5	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	3266 dt. 06.07.17	29.06.17	7.97	52	210.4	72	4.5	-	-
	3848 dt. 28.11.17	20.11.17	7.46	70	340	81	3	-	-
	4069 dt. 30.01.18	17.01.18	7.58	120	450.4	142	2.5	-	-
	4199 dt. 01.03.18	21.02.18	7.48	66	310.4	74	3.5	-	-
	4387 dt. 02.04.18	20.03.18	7.63	60	240.8	72	4	-	-
	4480 dt. 20.04.18	11.04.18	7.72	62	270.4	144	4.5	-	-
	4727 dt. 19.06.18	29.05.18	8.04	52	232	55	3	-	-
	4838 dt. 09.07.18	26.06.18	8.2	74	372	72	4	-	-
	4946 dt. 08.08.18	24.07.18	7.31	30	126.8	32	2	-	-
	5023 dt. 04.09.18	22.08.18	7.45	18	80.4	26	ND	-	-
	5155 dt. 11.10.18	27.09.18	7.81	32	126.8	34	2.5	-	-
	5317 dt. 12.11.18	29.10.18	7.7	26	116	70	2	-	-
	5445 dt. 11.12.18	27.11.18	7.09	42	170.4	120	2.5	-	-
21	**River Ghaggar before mixing Kaithal drain at Khanauri. ((Lat- 29.847172 ,Long-76.116581)**								
	2887 dt. 31.03.17	28.03.17	7.57	32	156	41	2	-	-
	3020 dt. 05.05.17	27.04.17	7.63	13	70.8	68	ND	-	-
	3138 dt. 07.06.17	30.05.17	8.2	18	86.8	23	ND	-	-
	3345 dt. 01.08.17	25.07.17	7.43	44	182	43	3	-	-
	3828 dt. 28.11.17	20.11.17	7.38	10	48.4	18	ND	-	-
	4049 dt. 30.01.18	17.01.18	7.62	9.0.	52.4	23	ND	-	-
	4200 dt. 01.03.18	21.02.18	7.32	12	60.4	13	ND	-	-
	4367 dt. 02.04.18	20.03.18	7.35	10	52.4	14	ND	-	-
	4481 dt. 20.04.18	11.04.18	8.04	13	76.4	21	ND	-	-
	4728 dt. 19.06.18	29.05.18	8.09	17	72.8	23	ND	-	-
	4818 dt. 09.07.18	26.06.18	7.85	15	69.6	21	ND	-	-
	4926 dt. 08.08.18	24.07.18	7.31	10	36.4	12	ND	-	-
	5024 dt. 04.09.18	22.08.18	7.02	10	47.6	13	ND	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	5135 dt. 11.10.18	27.09.18	7.54	12	45.8	20	ND	-	-
	5297 dt. 12.11.18	29.10.18	6.8	8	30.8	12	ND	-	-
	5446 dt. 11.12.18	27.11.18	7.3	10	52.4	41	ND	-	-
22	**River Ghaggar after mixing Kaithal Darin into River Ghaggar. (Lat- 29.8453 ,Long-76.111536)**								
	2890 dt. 31.03.17	28.03.17	7.37	40	183.2	48	4.5	-	-
	3023 dt. 05.05.17	27.04.17	7.79	36	150	270	3	-	-
	3141 dt. 07.06.17	30.05.17	8.01	29	120.8	62	2	-	-
	3235 dt. 03.07.17	22.06.17	8.03	27	123.2	72	2	-	-
	3348 dt. 01.08.17	25.07.17	7.41	40	190.8	41	3	-	-
	3655 dt. 13.10.17	04.10.17	7.73	12	40.4	19	ND	-	-
	3831 dt. 28.11.17	20.11.17	7.4	11	45.2	25	ND	-	-
	4052 dt. 30.01.18	17.01.18	7.37	26	150.4	31	3	-	-
	4203 dt. 01.03.18	21.02.18	7.45	28	140	31	ND	-	-
	4370 dt. 02.04.18	20.03.18	7.6	25	132.4	23	2.5	-	-
	4484 dt. 20.04.18	11.04.18	7.51	26	124.4	39	2	-	-
	4731 dt. 19.06.18	29.05.18	7.51	42	205.6	43	3	-	-
	4821 dt. 09.07.18	26.06.18	7.61	26	126.4	34	2.5	-	-
	4929 dt. 08.08.18	24.07.18	7.48	22	86.8	21	2	-	-
	5057 dt. 04.09.18	21.08.18	7.24	13	57.6	20	ND	-	-
	5138 dt. 11.10.18	27.09.18	7.54	10	51.6	22	ND	-	-
	5300 dt. 12.11.18	29.10.18	6.75	36	142.8	38	2	-	-
	5449 dt. 11.12.18	27.11.18	7.18	32	170.4	58	2.5	-	-
23	**River Ghaggar before meeting discharge of Moonak Town. (Lat- 29.808059 ,Long-75.896589)**								
	2891 dt. 31.03.17	28.03.17	7.64	16	92	26	2	-	-
	3024 dt. 05.05.17	27.04.17	7.78	30	140	84	4	-	-
	3142 dt. 07.06.17	30.05.17	8.16	21	112.4	33	2	-	-
	3236 dt. 03.07.17	22.06.17	7.85	18	84.4	31	ND	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	3349 dt. 01.08.17	25.07.17	7.29	12	58.8	23	ND	-	-
	3658 dt. 13.10.17	04.10.17	7.82	6.5	33.6	16	ND	-	-
	3834 dt. 28.11.17	20.11.17	7.42	17	78	19	ND	-	-
	4055 dt. 30.01.18	17.01.18	7.69	18	100	32	2	-	-
	4206 dt. 01.03.18	21.02.18	7.52	20	118.4	24	ND	-	-
	4373 dt. 02.04.18	20.03.18	7.91	20	100.8	24	2	-	-
	4487 dt. 20.04.18	11.04.18	7.72	23	110.8	29	ND	-	-
	4734 dt. 19.06.18	29.05.18	7.65	21	92.8	24	2	-	-
	4824 dt. 09.07.18	26.06.18	7.39	16	68.8	20	68.8	-	-
	4932 dt. 08.08.18	24.07.18	7.69	6	32.4	19	ND	-	-
	5030 dt. 04.09.18	21.08.18	7.01	24	96.4	28	ND	-	-
	5141 dt. 11.10.18	27.09.18	7.6	12	48.8	20	ND	-	-
	5303 dt. 12.11.18	29.10.18	6.86	34	148.4	31	ND	-	-
	5452 dt. 11.12.18	27.11.18	7.33	12	70.8	40	ND	-	-
24	**River Ghaggar after meeting discharge of Moonak Town with River Ghaggar. (Lat- 29.808874 ,Long-75.894387)**								
	2893 dt. 31.03.17	28.03.17	7.59	18	96	34	2	-	-
	3026 dt. 05.05.17	27.04.17	7.8	34	139.2	89	4	-	-
	3144 dt. 07.06.17	30.05.17	8.19	40	160.8	48	2.5	-	-
	3238 dt. 03.07.17	22.06.17	7.75	28	92.4	37	2.5	-	-
	3351 dt. 01.08.17	25.07.17	7.3	20	105.6	32	ND	-	-
	3660 dt. 13.10.17	04.10.17	7.65	10	42	21	ND	-	-
	3836 dt. 28.11.17	20.11.17	7.35	20	108.8	33	2	-	-
	4057 dt. 30.01.18	17.01.18	7.8	28	140.4	32	2.5	-	-
	4208 dt. 01.03.18	21.02.18	7.58	30	152.4	38	2.5	-	-
	4375 dt. 02.04.18	20.03.18	7.94	7.94	147.6	46	2.5	-	-
	4489 dt. 20.04.18	11.04.18	7.8	32	136.4	39	2	-	-
	4736 dt. 19.06.18	29.05.18	7.58	70	344	77	4.5	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	4826 dt. 09.07.18	26.06.18	7.39	18	83.6	17	2	-	-
	4934 dt. 08.08.18	24.07.18	7.38	10	39.2	19	ND	-	-
	5032 dt. 04.09.18	21.08.18	7.28	26	98.4	30	2	-	-
	5143 dt. 11.10.18	27.09.18	7.56	19	58.4	32	ND	-	-
	5305 dt. 12.11.18	29.10.18	6.87	46	172.8	46	2.5	-	-
	5454 dt. 11.12.18	27.11.18	7.3	14	70.4	42	ND	-	-
25	**River Ghaghar before meeting Jhambuwali Choe at Village Chandu. (Lat- 29.829028 ,Long-76.003248)**								
	2894 dt. 31.03.17	28.03.17	7.57	30	138.4	32	2	-	-
	3027 dt. 05.05.17	27.04.17	7.96	28	143.2	50	3	-	-
	3145 dt. 07.06.17	30.05.17	8.07	10	52.4	27	ND	-	-
	3239 dt. 03.07.17	22.06.17	7.64	24	113.2	29	2	-	-
	3352 dt. 01.08.17	25.07.17	7.25	15	70.4	22	ND	-	-
	3661 dt. 13.10.17	04.10.17	7.89	6.5	34	20	ND	-	-
	3837 dt. 28.11.17	20.11.17	7.56	16	72	26	ND	-	-
	4058 dt. 30.01.18	17.01.18	7.58	14	74.8	17	ND	-	-
	4209 dt. 01.03.18	21.02.18	7.52	14	70.8	21	ND	-	-
	4376 dt. 02.04.18	20.03.18	7.8	18	88	23	2	-	-
	4490 dt. 20.04.18	11.04.18	7.77	20	90.8	23	ND	-	-
	4737 dt. 19.06.18	29.05.18	7.22	36	187.6	44	3	-	-
	4827 dt. 09.07.18	26.06.18	8.29	22	98.4	16	2	-	-
	4935 dt. 08.08.18	24.07.18	7.44	20	77.6	23	2	-	-
	5033 dt. 04.09.18	21.08.18	7.11	14	55.6	17	ND	-	-
	5144 dt. 11.10.18	27.09.18	7.64	8	24.8	15	ND	-	-
	5306 dt. 12.11.18	29.10.18	6.81	33	130.4	32	ND	-	-
	5455 dt. 11.12.18	27.11.18	7.28	14	68.8	37	ND	-	-
26	**River Ghaghar after meeting Jhambuwali Choe at Village Chandu. (Lat- 29.82725 ,Long-75.998544)**								
	2896 dt. 31.03.17	28.03.17	7.53	33	152.8	46	2	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	3029 dt. 05.05.17	27.04.17	8.02	32	140	66	2.5	-	-
	3147 dt. 07.06.17	30.05.17	7.86	19	80.4	32	2	-	-
	3241 dt. 03.07.17	22.06.17	7.73	28	132.8	39	2	-	-
	3354 dt.01.08.17	25.07.17	7.24	20	80.8	26	ND	-	-
	3663 dt. 13.10.17	04.10.17	7.92	11	47.2	40	ND	-	-
	3839 dt. 28.11.17	20.11.17	7.49	22	92.4	41	ND	-	-
	4060 dt. 30.01.18	17.01.18	7.53	15	74.8	20	ND	-	-
	4211 dt. 01.03.18	21.02.18	7.56	16	78.4	27	ND	-	-
	4378 dt. 02.04.18	20.03.18	7.78	22	124	39	2	-	-
	4492 dt. 20.04.18	11.04.18	7.81	26	130	34	2	-	-
	4739 dt. 19.06.18	29.05.18	7.34	56	266.4	59	3.5	-	-
	4829 dt. 09.07.18	26.06.18	7.73	24	118.8	30	2	-	-
	4937 dt. 08.08.18	24.07.18	7.05	12	46.8	15	ND	-	-
	5035 dt. 04.09.18	21.08.18	6.96	18	82.4	22	ND	-	-
	5146 dt. 11.10.18	27.09.18	7.55	9	30.4	18	ND	-	-
	5308 dt. 12.11.18	29.10.18	6.83	42	160.4	31	2	-	-
	5457 dt. 11.12.18	27.11.18	7.32	22	88.4	32	2	-	-
27	**River Ghaggar before meeting discharge of Ratia. (Lat- 29.693333 ,Long-75.580474)**								
	330 dt 06.04.17	20.03.17	6.7	42	104	120	ND	20	-
	98dt. 07.07.17	30.06.17	7.9	28	88	60	ND	12	-
	172dt. 12.10.17	29.09.17	7	24	48	30	ND	ND	-
	243dt. 10.01.18	29.12.17	6.9	26	48	60	ND	8	-
	19dt. 15.05.18	30.04.18	8	26	40	70	ND	8	-
	56dt. 22.06.18	13.06.18	8	24	80	60	ND	12	-
	110dt. 28.07.18	23.07.18	8	26	80	70	ND	12	-
	235dt. 15.11.18	30.10.18	8	18	32	60	ND	8	-
	268dt. 30.11.18	21.11.18	8.2	42	120	80	8	26	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	378dt. 31.12.18	21.12.18	8.5	36	64	70	8	26	-
28	**River Ghaggar after meeting of discharge of Ratia. (Lat- 29.716549,Long-75.549705)**								
	331 dt 06.04.17	20.03.17	7	38	96	90	ND	18	-
	99dt. 07.07.17	30.06.17	7.5	30	64	50	ND	10	-
	173 12.10.17	29.09.17	7	18	40	26	ND	ND	-
	244dt. 10.01.18	29.12.17	7	22	40	70	ND	8	-
	20dt. 15.05.18	30.04.18	7.9	18	32	60	ND	8	-
	57dt. 22.06.18	13.06.18	8	22	72	70	ND	12	-
	111dt. 28.07.18	23.07.18	8.1	22	88	80	ND	12	-
	236dt. 15.11.18	30.10.18	7.9	16	40	50	ND	8	-
	269dt. 30.11.18	21.11.18	8.4	40	104	70	6	20	-
	379dt. 31.12.18	20.12.18	8.4	38	64	60	8	26	-
29	**River Ghaggar before meeting disharge of Vill. Bhunder (Lat- 29.697406,Long-75.227408)**								
	336 dt 06.04.17	20.03.17	7.2	38	94	80	ND	12	-
	95dt. 07.07.17	30.06.17	8.2	14	40	40	ND	6	-
	169 12.10.17	29.09.17	7.9	22	64	50	ND	12	-
	240dt. 10.01.18	29.12.17	7.6	24	48	110	ND	10	-
	16dt. 15.05.18	30.04.18	7.9	20	56	130	ND	10	-
	53dt. 22.06.18	13.06.18	7.8	20	32	130	ND	10	-
	232dt. 15.11.18	30.10.18	7.9	18	32	110	ND	10	-
30	**River Ghaggar after meeting dishcarge of vill. Bhunder (Lat- 29.690992,Long-75.218354)**								
	337 dt 06.04.17	20.03.17	6.7	34	80	60	ND	10	-
	96dt. 07.07.17	30.06.17	8.2	40	136	70	ND	16	-
	170 12.10.17	29.09.17	7.6	18	48	40	ND	8	-
	241dt. 10.01.18	29.12.17	7.9	16	40	90	ND	10	-
	18dt. 15.05.18	30.04.18	7.9	18	40	100	ND	8	-
	54dt. 22.06.18	13.06.18	7.8	22	32	120	ND	8	-
	233dt. 15.11.18	30.10.18	7.9	20	40	120	ND	8	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
31	**River Ghaggar before meeting discharge of Sardulgarh town (Lat- 29.699414,Long-75.242549)**								
	333 dt 06.04.17	20.03.17	6.4	32	72	70	ND	12	-
	92dt. 07.07.17	30.06.17	8.2	16	32	60	ND	12	-
	166 12.10.17	29.09.17	7.6	18	48	40	ND	8	-
	237dt. 10.01.18	29.12.17	7.9	22	54	120	ND	8	-
	13dt. 15.05.18	30.04.18	7.7	24	48	130	ND	10	-
	50dt. 22.06.18	13.06.18	7.9	26	48	120	4	12	-
	229dt. 15.11.18	30.10.18	7.7	26	56	140	ND	10	-
	271dt. 30.11.18	21.11.18	8.2	46	144	120	8	30	-
	381dt. 31.12.18	20.12.18	8.6	48	88	130	8	24	-
32	**River Ghaggar after meeting discharge of Sardulgarh town (Lat- 29.697706,Long-75.228063)**								
	334 dt 06.04.17	20.03.17	7.4	44	96	140	ND	14	-
	93dt. 07.07.17	30.06.17	8.2	18	48	40	ND	10	-
	167 dt. 12.10.17	29.09.17	7.5	16	40	36	ND	6	-
	238dt. 10.01.18	29.12.17	8	20	40	130	ND	8	-
	14dt. 15.05.18	30.04.18	7.8	22	56	120	ND	8	-
	51dt. 22.06.18	13.06.18	7.8	24	40	110	4	12	-
	230dt. 15.11.18	30.10.18	7.8	24	48	120	ND	8	-
	272dt. 30.11.18	21.11.18	8.3	44	128	130	6	26	-
	382dt. 31.12.18	20.12.18	8.4	46	80	120	6	26	-
33	**Ghaggar GH-1 at road bridge, Sirsa- Dabwali Road (Lat- 29.596304,Long-75.018021)**								
	59, 21.06.17	15.06.17	6.7	70	152	240	4	-	-
	107, 14.07.17	08.07.17	8.2	36	-	-	-	-	-
	125, dt 07.09.17	16.08.17	8.2	22	-	-	-	-	-
	204, 10.01.18	15.12.17	8.5	16	-	-	-	-	-
	249, 11.01.18	01.01.18	8	22	-	-	-	16	3.6
	270, 06.03.18	16.02.18	8.5	18	64	130	-	12	3.4
	292, 16.03.18	07.03.18	40	8.6	22	80	-	14	3.7

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	10, 15.05.18	30.04.18	8	24	88	120	-	12	4.2
	39, 05.06.18	31.05.18	7.9	22	40	110	-	12	4
	62, 22.06.18	13.06.18	8.2	30	48	130	ND	20	-
	104, 14.07.18	10.07.18	7.8	28	72	130	-	16	3.9
	136, 14.09.18	29.08.18	8.1	26	88	140	-	18	3.6
	198, 03.10.18	28.09.18	8.1	18	48	130	-	10	4.2
	239, 15.11.18	30.10.18	8.1	20	40	140	-	10	4
	304, 18.12.18	30.11.18	8.3	22	48	160	-	12	4.3
	375, 31.12.18	20.12.18	7.7	24	88	130	-	10	4
34	**Ghaggar Ottu Weir (Lat- 29.489727 ,Long-74.892745)**								
	339 dt 06.04.17	20.03.17	7.1	18	56	50	ND	-	-
	60dt. 21.06.17	15.06.17	6.7	46	120	140	4	-	-
	101dt. 07.07.17	30.06.17	7.9	30	64	60	ND	-	-
	108dt. 14.07.17	08.07.17	8	40	-	-	-	-	-
	126 dt. 07.09.17	16.08.17	8	24	-	-	-	-	-
	175 dt. 12.10.17	29.09.17	7.2	26	40	30	ND	-	-
	246dt. 10.01.18	29.12.17	7.9	24	40	140	ND	-	-
	22dt. 15.05.18	30.04.18	8.2	22	48	90	ND	-	-
	59dt. 22.06.18	13.06.18	8	26	48	90	ND	-	-
	238 dt. 15.11.18	30.10.18	8.2	26	56	110	ND	14	-
	384 dt. 31.12.18	20.12.18	8.5	26	56	110	ND	14	-
35	**Ghaggar GH-2 at Chandpur Syphen (Lat- 29.766484 ,Long-75.743456)**								
	298dt. dt. 17.02.17	02.02.17	7.2	32	-	-	-	22	3.9
	329 dt 06.04.17	15.03.17	6.7	30	-	-	-	26	2.7
	04dt. 25.04.17	10.04.17	7.1	28	-	-	-	16	3.4
	21dt. 19.05.17	04.05.17	7	32	-	-	-	14	3.7
	63dt. 21.06.17	16.06.17	6.7	26	-	-	-	12	3.2

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	108dt. 14.07.17	08.07.17	8	40	-	-	-	12	4.2
	126 dt. 07.09.17	16.08.2017	8	24	-	-	-	8	3.1
	10.01.18	15.12.17	-	8.7	-	-	-	-	3
	250dt. 11.01.18	01.01.18	-	8.6	-	-	-	-	4.2
	271dt. 06.03.18	16.02.18	8.4	34	88	110	-	18	4.3
	293dt. 16.03.18	07.03.18	56	8.6	32	60	-	20	4.4
	11dt. 15.05.18	30.04.18	8.1	36	40	90	-	18	4.9
	40dt. 05.06.18	31.05.18	7.5	32	32	80	-	16	4.7
	60dt. 22.06.18	13.06.18	8	26	88	120	ND	10	-
	105dt. 14.07.18	10.07.18	7.9	34	96	80	-	20	4.7
	137dt. 14.09.18	29.08.18	7.9	32	48	90	-	22	4.5
	199dt. 03.10.18	28.09.18	7.9	20	48	110	-	12	3.2
	240dt. 15.11.18	30.10.18	7.9	22	48	120	-	10	3
	305dt. 18.12.18	30.11.18	8.3	24	72	170	-	16	3.7
	376dt. 31.12.18	20.12.18	7.7	20	64	120	-	10	3.6
36	**Ghaggar before ottu weir (before mixing with Satluj canal water) (Lat- 29.520122 ,Long-74.925031)**								
	299 dt. 17.02.17	02.02.17	7.9	22	-	-	-	12	3.4
	327 dt 06.04.17	15.03.17	7.4	40	-	-	-	20	3.4
	05dt. 25.04.17	10.04.17	6.7	34	-	-	-	16	4.1
	22dt. 19.05.17	05.05.17	6.7	36	-	-	-	16	3.9
	64dt. 21.06.17	16.06.17	7.1	46	-	-	-	22	2.4
	109dt. 14.07.17	08.07.17	7.9	48	-	-	-	20	3.1
	127dt. 07.09.17	16.08.2017	8	20	-	-	-	12	2.9
	206dt. 10.01.18	15.12.17	8.2	26	-	-	-	18	3.7
	251dt. 11.01.18	01.01.18	7.6	24	-	-	-	22	3
	272dt. 06.03.18	16.02.18	8.3	26	-	-	-	20	3.2

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	294dt. 16.03.18	07.03.18	28	48	-	-	-	-	70
	12dt. 15.05.18	30.04.18	8.1	32	-	-	-	18	4.1
	41dt. 05.06.18	31.05.18	7.5	28	-	-	-	14	-
	72dt. 22.06.18	18.06.18	7.8	26	3.9	-	-	16	3.9
	106dt. 14.07.18	10.07.18	8.1	26	3.7	-	-	18	3.7
	138dt. 14.09.18	29.08.18	8	28	3.7	-	-	16	3.7
	200dt. 03.10.18	28.09.18	8	16	32	140	-	10	3.4
	241dt. 15.11.18	30.10.18	8	26	48	110	-	14	3.7
	306dt. 18.12.18	30.11.18	8.2	25	56	130	-	18	3.9
	377dt. 31.12.18	20.12.18	7.6	24	72	140	-	14	3.2

Annexure-3

Water Quality of the Drains outfalling in River Ghaggar in the State of Haryana.

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
1	**Sukhna Nallah coming from Himachal Pradesh Industries and domestic effluent of Parwanoo Town at Parwanoo Barrier(H.P) near Kalka Haryana (Lat-30.839962, Long-76.944730)**								
	4509dt. 26.04.2018	13.04.2018	7.25	80	286.4	188	12.5	24.08	-
	4812dt. 09.07.2018	22.06.2018	7.65	14.5	54	17	ND	-	-
	5549dt. 14.12.2018	06.12.2018	7.24	40	135.2	36	4.5	-	-
2	**Jatton Wala Nallah coming from Himachal Pradesh Industries near Kala Amb (Lat-30.495275, Long-77.197137)**								
	2744dt. 09.02.2017	31.01.2017	6.92	180	516	428	10	-	-
	2779dt. 01.03.2017	19.02.2017	7	80	251.6	128	12.5	-	-
	2899dt. 05.04.2017	24.03.2017	7.56	120	364.8	200	14	-	-
	3047dt. 05.05.2017	28.04.2017	4.89	190	632	238	15	-	-
	3251dt. 04.07.2017	26.06.2017	7.41	610	2648	1252	16	-	-
	3323dt. 14.07.2017	06.07.2017	8.12	120	376	354	12.5	-	-
	3968dt. 04.01.2018	27.12.2017	7.36	240	836.8	562	18	-	-
	4286dt. 06.03.2018	28.02.2018	7.5	90	350.4	3996	5.5	-	-
	4411dt. 04.04.2018	26.03.2018	6.59	320	859.2	548	12.5	ND	-
	4547dt. 30.04.2018	19.04.2018	6.98	220	692.8	254	14	12.32	-
	4840dt. 09.07.2018	26.06.2018	7.4	240	743.2	364	16	12.32	-
	AFLPL/E/300718014dt. 07.08.2018	30.07.2018	6.89	196	720	498	15.8	32	-
	AFLPL/E/280818008 dt. 25.09.2018	28.08.2018	6.45	237.9	860	562	21	39	-
	5102dt. 05.10.2018	25.09.2018	7.54	110	390	236	11	-	-
	5290dt. 12.11.2018	30.10.2018	6.36	140	460	356	12.5	-	-
	5411dt. 03.12.2018	22.11.2018	6.83	157.5	603.2	614	12.5	ND	-
3	**Drain carrying discharge of STP, Sec-28, Panchkula at Vill- Kakrali, Punjab (Lat-30.639945, Long-76.873018)**								
	2727dt. 09.02.2017	30.01.2017	7.45	18	68	8	ND	4.2	-
	3096dt. 25.05.2017	17.05.2017	8	8	36	10	ND	2.8	-
	3292dt. 06.07.2017	30.06.2017	8.22	9	42.4	23	ND	7	-
	3760dt. 07.11.2017	27.10.2017	7.78	15	60	22	ND	4.48	-
	4292dt. 06.03.2018	28.02.2018	8.18	20	90.4	24	2	4.2	-
	4602dt. 14.05.2018	03.05.2018	7.74	13	58.4	18	ND	5.4	-
	5065dt. 28.09.2018	21.09.2018	7.64	21	77.6	24	2	4.48	-
	5339dt. 14.11.2018	31.10.2018	7.15	24	80.4	25	2	5.04	-
	5484dt. 12.12.2018	30.11.2018	7.07	16	56.8	135	ND	14	-
4	**MDC Drain before meeting manimajra domestic effluent, Sector-18, Panchkula (Lat-30.705636, Long-76.837947)**								
	2735dt. 09.02.2017	30.01.2017	7.73	6	29.6	8	ND	ND	-
	4623dt. 14.05.2018	03.05.2018	7.52	33	152.4	40	ND	7	-
	5170dt. 11.10.2018	28.09.2018	7.86	46	227.6	62	2	8.4	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	5360dt. 14.11.2018	31.10.2018	7.2	26	120	45	2.5	4.48	-
	5505dt. 12.12.2018	30.11.2018	6.47	90	324	3592	7	12.32	-
5	**Sukhna choe at Vill- Bhankarpur, Punjab (Lat-30.613836, Long-76.836983)**								
	2729dt. 09.02.2017	30.01.2017	7.41	50	190	110	5	10.08	-
	3109dt. 26.05.2017	19.05.2017	7.79	11.2	50.4	16	ND	1.8	-
	3295dt. 06.07.2017	30.06.2017	7.57	12	60.4	25	ND	8	-
	3763dt. 07.11.2017	27.10.2017	7.76	45	160.8	53	3.5	8.4	-
	4294dt. 06.03.2018	28.02.2018	7.71	26	126.4	31	2.5	4.76	-
	4605dt. 14.05.2018	03.05.2018	7.73	32	168.4	31	2	8	-
	5068dt. 28.09.2018	21.09.2018	7.56	480	2496	55	7.5	19.6	-
	5342dt. 14.11.2018	31.10.2018	6.97	56	224.4	55	5.5	4.48	-
	5487dt. 12.12.2018	30.11.2018	6.46	480	1460.8	3880	12.5	16.24	-
6	**Ambala Drain near Motor Market, Ambala City (Lat-30.388012, Long-76.790604)**								
	4844dt. 10.07.2018	27.06.2018	7.53	56	158.8	244	6	12.88	-
	5104dt. 05.10.2018	25.09.2018	7.34	46	130	169	3.5	-	-
7	**Ghail drain at Rampur, Ambala (Lat-30.333485, Long-76.668369)**								
	2927dt. 07.04.2017	30.03.2017	7.37	14	65.6	17	ND	6.16	-
	3039dt. 05.05.2017	27.04.2017	7.82	19	85.2	32	ND	6	-
	May	NIL FLOW							
	3277dt. 06.07.2017	29.06.2017	7.3	11	60.4	21	ND	7	-
	Oct-18	NIL FLOW							
	Nov-18	NIL FLOW							
	Dec-18	NIL FLOW							
	Jan-18	NIL FLOW							
	Mar-18	NIL FLOW							
	May-18	NIL FLOW							
	5002dt. 04.09.2018	22.08.2018	7.43	10	45.6	220	ND	5.04	-
	5158dt. 11.10.2018	28.09.2018	8.15	9	35.6	18	ND	4.48	-
	Oct-18	NIL FLOW							
	Nov-18	NIL FLOW							
8	**Sagar Para Drain before mixing in Ghaghar river, Village Sagra. (Longitude $76^0$11.249' and Latitude $29^0$52.976')**								
	2917 dt. 06.04.17	28.03.17	7.67	110	408.8	106	8	-	-
	3018 dt. 05.05.17	27.04.17	7.85	160	642.4	140	13.5	-	-
	3155 dt. 07.06.17	30.05.17	8.09	130	406.4	132	8.5	-	-
	3265 dt. 06.07.17	29.06.17	8.16	120	412	128	12.5	-	-
	3847 dt. 28.11.17	20.11.17	7.48	110	412	148	3	-	-
	4068 dt. 30.01.18	17.01.18	7.66	180	820.8	170	8.5	-	-
	4198 dt.01.03.18	21.02.18	7.56	110	398.4	118	8.5	-	-
	4386 dt. 02.04.18	20.03.18	7.78	90	320.4	93	6	-	-
	4479 dt. 20.04.18	11.04.18	8.02	642.4	160	218	12	-	-
	4726 dt. 19.06.18	29.05.18	8.07	1168	330	252	12.5	-	-
	4837 dt. 09.07.18	26.06.18	8.24	1085	242	188	8.5	-	-
	4945 dt. 08.08.18	24.07.18	7.3	144	36	43	2.5	-	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	5022 dt. 04.09.18	22.08.18	7.33	95.6	27	30	2	-	-
	5154 dt. 11.10.18	27.09.18	7.65	55	209.6	27	3	-	-
	5316 dt. 12.11.18	29.10.18	7.38	32	124.8	65	2	-	-
	5444 dt. 11.12.18	27.11.18	7.3	15	45.6	62	ND	-	-
9	**Markanda River before mixing River Ghaggar at Bhagal Bridge. (Longitude $76^0$26.218' and Latitude $30^0$05.025')**								
	2911 dt. 06.04.17	28.03.17	7.66	17	85.2	22	ND	-	-
	3012 dt. 05.05.17	26.04.17	7.62	15	73.2	59	2	-	-
	3149 dt. 07.06.17	30.05.17	8.3	17	60.8	28	ND	-	-
	3259 dt. 06.07.17	29.06.17	7.82	13	65.2	32	2	-	-
	3689 dt. 18.10.17	11.10.17	7.4	11	50	32	ND	-	-
	3841 dt. 28.11.17	20.11.17	7.56	10	48	20	ND	-	-
	4062 dt. 30.01.18	17.01.18	7.7	14	70.4	15	ND	-	-
	4192 dt. 01.03.18	21.02.18	7.65	14	70.4	21	ND	-	-
	4380 dt. 02.04.18	20.03.18	7.64	15	70.4	23	ND	-	-
	4473 dt. 20.04.18	11.04.18	7.24	16	58.4	27	ND	-	-
	4720 dt. 19.06.18	29.05.18	7.78	11	39.6	20	ND	-	-
	4831 dt. 09.07.18	26.06.18	7.85	21	61.6	20	2	-	-
	4939 dt. 08.08.18	24.07.18	7.68	12	44.8	20	ND	-	-
	5016 dt. 04.09.18	22.08.18	7.02	13	43.6	18	ND	-	-
	5148 dt. 11.10.18	27.09.18	7.78	9	39.6	18	ND	-	-
	5310 dt. 12.11.18	29.10.18	7.09	10	47.2	42	ND	-	-
	5438 dt. 11.12.18	27.11.18	7.74	21	72.4	25	ND	-	-
10	**Kaithal drain before mixing River Ghaggar at Khanauri. (Longitude $76^0$06.831' and Latitude $29^0$50.731')**								
	2888 dt. 31.03.17	28.03.17	7.4	60	196	50	5.5	-	-
	3021 dt. 05.05.17	27.04.17	7.84	40	170.4	82	2	-	-
	3139 dt. 07.06.17	30.05.17	7.89	44	170.4	62	4.5	-	-
	3346 dt. 01.08.17	25.07.17	7.26	72	320.8	78	3.5	-	-
	3829 dt. 28.11.17	20.11.17	7.26	72	320.8	78	3.5	-	-
	4050 dt.30.01.18	17.01.18	7.81	11	60.8	30	ND	-	-
	4201 dt. 01.03.18	21.02.18	7.82	40	190.4	43	4.5	-	-
	4368 dt. 02.04.18	20.03.18	7	22	110	25	ND	-	-
	4482 dt. 20.04.18	11.04.18	7.6	44	182.8	62	3	-	-
	4729 dt. 19.06.18	29.05.18	7.76	56	252	63	3.5	-	-
	4819 dt. 09.07.18	26.06.18	7.75	38	180.4	50	3	-	-
	4927 dt. 08.08.18	24.07.18	7.14	11	37.6	14	ND	-	-
	5025 dt. 04.09.18	21.08.18	6.98	28	94.4	32	2	-	-
	5136 dt. 11.10.18	27.09.18	7.6	14	52.4	25	ND	-	-
	5298 dt. 12.11.18	29.10.18	7.71	48	210.4	40	2.5	-	-
	5447 dt. 11.12.18	27.11.18	7.31	52	210.8	80	2.5	-	-
11	**Discharge of MC Ratia Town through Drain (Longitude 29.711468 and Latitude 75.551894)**								
	332 dt 06.04.17	20.03.17	6.4	46	112	160	4	22	-
	100dt. 07.07.17	30.06.17	7.9	36	80	80	ND	14	-

Sr. No.	AR/No. & dt.	Date	pH	BOD (mg/l)	COD (mg/l)	TSS (mg/l)	O & G (mg/l)	Ammonical -N (mg/l)	DO (mg/l)
	174dt. 12.10.17	29.09.17	8.2	14	32	18	ND	ND	-
	245dt. 10.01.18	29.12.17	7.9	14	32	24	ND	ND	-
	21dt. 15.05.18	30.04.18	8	14	24	12	ND	ND	-
	58dt. 22.06.18	13.06.18	8	12	48	14	ND	ND	-
	112dt. 28.07.18	23.07.18	7.8	14	56	22	ND	ND	-
	237dt. 15.11.18	30.10.18	8	12	32	14	ND	ND	-
	270dt. 30.11.18	21.11.18	8.3	18	72	20	ND	ND	-
	380dt. 31.12.18	20.12.18	8.6	18	24	20	ND	ND	-

Annexure-4

Waste water consumption/ waste water generation by industries

Name of the Town	Sector wise	No. Of Industries	Water Consumption in KLD	Source of Water Supply	Industrial Effluent generation in KLD (Trade Effluent)	No. Of Industries attached to CETPs	No. of CETP		CETP capacity (in KLD)			Final mode of disposal of trade effluent in drains/river KLD	
							Existing	Proposed	Existing	Proposed	Under commissioning	Treated	Untreated
Kalaka	Electoplating	2	1.1	HSIIDC	0.6	0	0	0	0	0	0	0.6	NA
	Hospitals	4	4	M.C/Own Tubewell	0.8	0	0	0	0	0	0	0.8	NA
Kalka, HSIIDC, Industrial Area	Food and Food Processing	1	10	HSIIDC	2	0	Nil	Nil	Nil	Nil	Nil	2	NA
	Electoplating	1	10	HSIIDC	8	0	0	0	0	0	0	8	NA
HSIIDC, Industrial Area, Barwala	Food and Food Processing	1	20	HSIIDC	18	1	1	Nil	0.5	0	0	18	NA
	Service Station	1	8.5	HSIIDC	8	1	1	Nil	0.5	0	0	8	NA
	Electoplating	4	48.45	HSIIDC	22.5	4	1	Nil	0.5	Nil	Nil	22.5	NA
	Pharmaceutical Formulation of injectable	2	6.8	HSIIDC	5.5	2	1	Nil	0.5	Nil	Nil	5.5	NA
	Phosphating &	2	3.1	HSIIDC	1.1	2	1	Nil	0.5	Nil	Nil	1.1	NA

Name of the Town	Sector wise	No. Of Industries	Water Consumption in KLD	Source of Water Supply	Industrial Effluent generation in KLD (Trade Effluent)	No. Of Industries attached to CETPs	No. of CETP		CETP capacity (in KLD)			Final mode of disposal of trade effluent in drains/river KLD	
							Existing	Proposed	Existing	Proposed	Under commissioning	Treated	Untreated
	Powder coating												
Panchkula City	Fermentation industry yeast, beer	5	14	HUDA	8.9	0	Nil	Nil	Nil	Nil	Nil	8.9	NA
	Printing Press	1	13	HUDA	11	0	Nil	Nil	Nil	Nil	Nil	11	NA
	Hotel Industry	9	110	HUDA/M. C/Own Tubewell	2	0	Nil	Nil	Nil	Nil	Nil	2	NA
	Building and Construction Project	1	80	HUDA	0	0	Nil	Nil	Nil	Nil	Nil	0	NA
	Hospitals	21	179.1	HUDA/M. C/Own Tubewell	5.4	0	Nil	Nil	Nil	Nil	Nil	5.4	NA
Panchkula Industrial Area Phase-1 & 2	Dairy Firm (Milk Product)	1	6	HUDA	5	0	Nil	Nil	Nil	Nil	Nil	5	NA
	Service Station	18	127.56	HUDA/Own tubewell	108.3	0	Nil	Nil	0	Nil	Nil	108.3	NA
	Electoplating	15	60.375	HUDA/Own Tubewell	41.8	0	0	0	0	0	0	41.8	NA
	Electroplati	1	500	HUDA	100	0	Nil	Nil	Nil	Nil	Nil	100	NA

Name of the Town	Sector wise	No. Of Industries	Water Consumption in KLD	Source of Water Supply	Industrial Effluent generation in KLD (Trade Effluent)	No. Of Industries attached to CETPs	No. of CETP		CETP capacity (in KLD)			Final mode of disposal of trade effluent in drains/river KLD	
							Existing	Proposed	Existing	Proposed	Under commissioning	Treated	Untreated
	ng (E-Waste)												
	Pharmaceutical Formulation for R & D Centre	2	5.7	HUDA	3.1	0	Nil	Nil	Nil	Nil	Nil	3.1	NA
	Printing Press	1	10	HUDA	8	0	Nil	Nil	Nil	Nil	Nil	8	NA
	Bakery and confectionary	2	23	HUDA	20	0	Nil	Nil	Nil	Nil	Nil	20	NA
	Pharmaceutical Formulation of injectable	1	35	HUDA/HSIIDC	20	0	0	0	0	Nil	Nil	20	NA
	Phosphating & Powder coating	3	7	HUDA	5.9	0	0	Nil	0	Nil	Nil	5.9	NA
	Lead/Copper ingot (Unit covered under schedule IV	1	2.2	HUDA	2	0	Nil	Nil	Nil	Nil	Nil	2	NA

Name of the Town	Sector wise	No. Of Industries	Water Consumption in KLD	Source of Water Supply	Industrial Effluent generation in KLD (Trade Effluent)	No. Of Industries attached to CETPs	No. of CETP		CETP capacity (in KLD)			Final mode of disposal of trade effluent in drains/river KLD	
							Existing	Proposed	Existing	Proposed	Under commissioning	Treated	Untreated
	of HWTM Rules)												
Naraingarh	Hospitals	10	10	HUDA/M.C/Own Tubewell	1.9	0	Nil	Nil	Nil	Nil	Nil	1.9	NA
Saha	Hotel Industry	1	4	M.C/Own Tubewell	2	0	Nil	Nil	Nil	Nil	Nil	2	NA
Ambala City	Dairy Firm (Milk Product)	1	244	Own Tubewell	156	0	Nil	Nil	Nil	Nil	Nil	156	NA
	Service Station	2	7	Own Tubewell	5	0	0	0	0	0	0	5	NA
	Electoplating	2	0.806	Own Tubewell/ M.C	0.506	0	0	Nil	Nil	Nil	Nil	0.506	NA
	Hotel Industry	1	15	M.C drain	0	0	0	0	0	0	0	0	0
	Tanneries (Semi finish to finshed leather)	1	30	Own Tubewell	28	0	Nil	Nil	Nil	Nil	Nil	28	NA
	Hospitals	22	22	HUDA/M.C/Own Tubewell	4.5	0	Nil	Nil	Nil	Nil	Nil	4.5	NA
Industrial Area, Ambala	Service Station	1	9	HSIIDC	8	0	Nil	Nil	Nil	Nil	Nil	8	NA
	Electoplati	10	5.3	Own	2.6	0	Nil	Nil	Nil	Nil	Nil	2.6	NA

Name of the Town	Sector wise	No. Of Industries	Water Consumption in KLD	Source of Water Supply	Industrial Effluent generation in KLD (Trade Effluent)	No. Of Industries attached to CETPs	No. of CETP		CETP capacity (in KLD)			Final mode of disposal of trade effluent in drains/river KLD	
							Existing	Proposed	Existing	Proposed	Under commissioning	Treated	Untreated
Cantt.	ng			Tubewell/ M.C									
	Phosphating & Powder coating	2	1.3	HSIIDC	0.6	2	1	Nil	0.5	Nil	Nil	0.6	NA
	Hospitals	11	11	HUDA/M.C/Own Tubewell	2.3	0	0	Nil	0	0	0	2.3	NA
Pehowa	Dairy Firm (Milk Product)	1	206	Own Tubewell	100	0	Nil	Nil	Nil	Nil	Nil	100	NA
	Paper Mills	1	4000	Tubewell	3350	0	Nil	Nil	Nil	Nil	Nil	3350	NA
	Hospitals	1	21.5	Own Tubewell	20	0	Nil	Nil	Nil	Nil	Nil	20	NA
Shahabad	Service Station	1	2.4	Own Tubewell	0.8	0	0	0	0	0	0	0.8	NA
	Hotel Industry	1	15	Own Tubewell	0	0	0	0	0	0	Nil	0	NA
	Hospitals	2	3.2	Own Tubewell/ M.C	0.4	0	Nil	Nil	Nil	Nil	Nil	0.4	NA
Kurukshetra City	Service Station	2	6	HUDA/Own tubewell	3.5	0	0	0	0	0	0	3.5	NA
	Hotel Industry	1	15	Own Tubewell	0	Nil	Nil	Nil	Nil	Nil	Nil	0	NA

Name of the Town	Sector wise	No. Of Industries	Water Consumption in KLD	Source of Water Supply	Industrial Effluent generation in KLD (Trade Effluent)	No. Of Industries attached to CETPs	No. of CETP		CETP capacity (in KLD)			Final mode of disposal of trade effluent in drains/river KLD	
							Existing	Proposed	Existing	Proposed	Under commissioning	Treated	Untreated
	Hospitals	19	37.9	Own Tubewell/ M.C	19.6	0	Nil	Nil	Nil	Nil	Nil	19.6	NA
Kurukshetra Industrial Area, Sec-2	Service Station	3	15.6	HUDA/Own tubewell	12.6	0	0	0	0	0	0	12.6	NA
	Pharmaceutical Formulation for R & D Centre	1	1.3	HUDA	0.3	0	0	Nil	Nil	Nil	Nil	0.3	NA
	Total	**197**	**5968.191**		**4126.506**							**4126.506**	

Annexure-5

Details of Industries inspected after 01.08.2018

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
1	Ultimate Automobiles Pvt. Ltd, Plot No. 355, Indl-Area, Ph-II, Panchkula	26.11.2018	Non Complying	SS=332 BOD=48 COD=269.6	SS=100 BOD=30 COD=250	Closed by Board vide no. 6158 dated 04.01.2019 and Recommend for sanction of prosecution vide this office letter no. 425 dated 23.01.2019
2	EM PEE Motors Pvt. Ltd., Plot No. 72, Indl-Area, Ph-1, Panchkula	26.11.2018	Non Complying. 1. Unit is not having valid agreement with GEPIL for disposal of HW. 2. Capacity of ETP as informed by the representative of unit is 08 KLD but total effluent generation is 30 KLD. 3. No record of ETP sludge maintained. 4. pH meter non functional.	pH =7.16 SS=17 BOD=18 COD=102 O & G = ND	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	Recommended for Closure vide no. 457 dated 24.01.2019.
3	V.M.S Metal Works Pvt. Ltd, Plot No. 278-279, I.A, Phase-I, Panchkula	26.11.2018	Non Complying1. ETP is installed, but not in operation2. APCM at buffing Section not provided. 3. APCM on Electroplating Section not Provided.	pH=7.39SS=12COD=109.6O & G =NDAmmonical Nitrogen=NDHexavalent Chromium=NDTotal Chrominum=NDZinc=0.2Nickle=0.5Cynaide=NDIron=0.6	pH=6-9SS=100COD=250O & G =10Ammonical Nitrogen=50Zinc=5Cynaide=0.2Iron=3	SCN issued vide No. 4688 dated 10.12.2018 and Closed by Board by vide no. 6178 dated 04.01.2019

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
4	Unique Himtech Pvt. Ltd, Plot No. 28, HSIIDC, Kalka, Industrial Area, Kalka, Panchkula	26.11.2018	Non Complying 1. No record of ETP sludge generation provided at the time of the inspection. 2. Authorization under HOWM Rules, 2016 not provided at the time of inspection.	pH=7.71 SS=56.8 BOD=27 COD=120 O & G =ND Zinc=0.4 Chromium=ND Hexavalent Chormium=ND Nickle=ND Copper=0.38 Iron=0.55	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10 Zinc=5 Chromium=2 Hexavalent Chormium=0.1 Nickle=3 Copper=3 Iron=3	SCN issued vide No. 4674 dated 10.12.2018 and unit replied on 20.12.2018
5	Essen Connectors Pvt. Ltd,. 23-24, PH-I, INDL-AREA, Panchkula	26.11.2018	Non Complying.1. APCM on Electroplating Section not Provided.	pH=6.89SS=38O & G =0.2Cyanide=NDAmmonical Nitrogen=2.1Total residual chlorine=0.8Cadmium= NDNickel=0.82Zinc=0.9Hexavalent Chromium=NDTotal Chromium=0.66Copper=1.4Lead=NDIron=1.22Total Metal=5.0	pH=6-9SS=100O & G =10Cyanide=0.2Ammonical Nitrogen=50Total residual chlorine=1Cadmium= 2Nickel=3Zinc=5Hexavalent Chromium=0.1Total Chromium=2Copper=3Lead=0.1Iron=3.0Total Metal=10	SCN issued vide No. 4672 dated 10.12.2018 and unit replied on 18.12.2018. Recommended for closure vide no. 5219 dated 21.12.2018

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
6	The Ambala Distt.. Co-OP. Milk Production Producers Union Ltd. G.T. Road, Ambala City.	26.11.2018	Complying	pH =7.44 SS=49 BOD=19 COD=90.8 O & G = 2	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	NA
7	Metro Motors, 106, Railway Road, Ambala Cantt.	26.11.2018	Non Complying1. pH meter not working.2. Log book of ETP not maintained after 12.11.2018.	pH =8.65SS=83BOD=24COD=106.0O & G = 2.5	pH=5.5-9SS=100BOD=30COD=250O & G =10	SCN issued vide No. 4660 dated 10.12.2018 and unit replied on 20.12.2018.
8	Modern Automobiles, NH-1, Adjoining Model Town Crossing, Ambala City	26.11.2018	Non Complying 1. Log book of ETP not maintained. 2. pH meter and Energy meter not found working. 3. Proper record of ETP sludge generation not maintained. 4. Housekeeping conditions not good.	pH=7.06 SS=78.0 BOD=24 COD=119.2 O & G =3.5	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	SCN issued vide No. 4662 dated 10.12.2018 and unit replied on 19.12.2018.
9	Haryana Milk Food Ltd., Vill. Usmanpur, Kaithal Road, Pehowa, Distt. Kurukshetra	26.11.2018	Non Complying	SS= 120 BOD= 46	SS=100 BOD=30	SCN issued vide No. 5232 dated 21.12.2018 and unit replied on 12.01.2019. Recommend for sanction of prosecution vide this office letter no. 435 dated 24.01.2019

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
10	Sainsons Paper Indus. Ltd., Plot No. 5, Vill Bakhli, Pehowa, Kurukshetra.	26.11.2018	Complying	pH=8.4 SS=20 BOD=24 COD=144 O & G =6	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	NA
11	Motel Golden Saras, G.T Road, VPO Masana, Kuruskehtra	26.11.2018	Non Complying	pH=7.1SS=180BOD=70COD =320O & G =18	pH=5.5-9SS=100BOD=30COD=250O & G =10	Recommended for Closure vide no. 157 dated 04.01.2019 and Recommend for sanction of prosecution vide this office letter no. 449 dated 24.01.2019
12	Kapoor Enterprise 102, Vikaspuri, Near Sai Baba Mandir, Ambala Cantt.	26.11.2018	Non Complying 1. Not obtained CTO under Water (Prevention & Control of Pollution) Act, 1974 & Air (Prevention and Control of Pollution) Act, 1981. 2. Not installed ETP for treatment of trade effluent.	NA	NA	SCN issued vide No. 4666 dated 10.12.2018 and Closed by Board vide no. 6262 dated 15.01.2019 and Recommend for sanction of prosecution vide this office letter no. 410 dated 21.01.2019
13	Coatings & Chemicals, 113, Inds-Area, Ambala Cantt	26.11.2018	Non Complying.	pH=3.67 SS=204 BOD=70 COD=287.6	pH=5.5-9 SS=100 BOD=30 COD=250	Recommended for Closure vide no. 369 dated 17.01.2019 and Recommend for

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
				O & G =7	O & G =10	sanction of prosecution vide this office letter no. 408 dated 21.01.2019.
14	M.M Continental (Hotel), Village -Mullana, District - Ambala	26.11.2018	Complying	pH=7.31 SS=56 BOD=24 COD=122 O & G =2.5	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	NA
15	Viking Tanners, Inc. Plot No 23, IDC, Near Motor Market, Ambala City	26.11.2018	Non Complying	pH=6.67SS=24BOD=80COD=272O & G =12.5Ammonical Nitrogen=3.36TDS=1420Chlorides=290Total Hardness=368Calcium=100 Magnesium=28.674Phenolic Compund=NDSulphate=680.6Copper=NDZinc=0.013	pH=5.5-9SS=100BOD=30COD=250O & G =10Phenolic Compund=1	Closed by Board vide no. 6248 dated 15.01.2019 and Recommend for sanction of prosecution vide this office letter no. 409 dated 21.01.2019
16	THE INDIAN EXPRESS LTD., PLOT NO. C-5, SECTOR-6, PANCHKULA	03.12.2018	Complying	pH=8.72 SS=32 BOD=23 COD=109.2 O & G =2.5	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	NA
17	Ojas Super Specialty Hospital, Site no. H1, Sec-26, Panchkula	03.12.2018	Complying	pH=7.98 SS=37 BOD=21 COD=90	pH=5.5-9 SS=100 BOD=30 COD=250	NA

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
				O & G =2.5	O & G =10	
18	Paras Bliss Hospital Swastik Vihar, Ph-I, Sec-5, Panchkula	03.12.2018	Non Complying 1. Logbook of ETP not maintained by the unit.	pH=6.71 SS=9.0 BOD=12 COD=45.2 O & G =ND	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	SCN issued vide No. 4680 dated 10.12.2018 and unit replied on 20.12.2018.
19	Parbhat Hotels Pvt. Ltd., Site No. 4, Sector 10, Panchkula	03.12.2018	Non Complying 1. ETP not found working during inspection. 2. Logbook of ETP not maintained by the unit.	pH=3.59 SS=8870 BOD=350 COD=1180 O & G =22.5	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	SCN issued vide No. 5358 dated 28.12.2018 and unit replied on 17.12.2018. Recommend for sanction of prosecution vide this office letter no. 456 dated 24.01.2019.
20	CONTEL BELLA VISTA SECTOR -5, PANCHKULA	03.12.2018	Non Complying1. No ETP Sludge found during inspection.2. ETP not working satisfactorily during inspection.	pH=7.21SS= 48.9BOD= 23COD= 110O & G = ND	pH=5.5-9SS=100BOD=30COD=250O & G =10	SCN issued vide No. 4676 dated 10.12.2018 and unit replied on 18.12.2018.
21	Alchemist Hospital Ltd., Sector-21, Panchkula	03.12.2018	Non Complying	pH=5.60 SS=118 BOD=110 COD=367.6 O & G =7	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	SCN issued vide No. 5234 dated 21.12.2018 and unit replied. Recommend for sanction of prosecution vide this office letter no. 458

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
						dated 24.01.2019.
22	Miri Piri Institute of Medical Sciences Research, G.T. Road, Shahbad, Markanda, Kurukshetra	03.12.2018	Complying	pH=8.8 SS=20 BOD=16 COD=48 O & G =ND	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	NA
23	Shri Balaji Aarogyam Hospital, Behind Old Bus Stand, Kurukshetra	03.12.2018	Non Complying	pH=9.6 SS=120 BOD=46 COD=128 O & G =6	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	SCN issued vide No. 5228 dated 21.12.2018 and unit replied on 10.01.2019 through E-mail and hard copy 17.01.2019. Recommend for sanction of prosecution vide this office letter no. 448 dated 24.01.2019
24	Virk Hospital, SCO 16-17, Sec-17, Kurukshetra	03.12.2018	Non Complying	pH=9.3SS=230BOD=80COD =288O & G=8	pH=5.5-9SS=100BOD=30COD=250O & G =10	SCN issued vide No. 5236 dated 21.12.2018 and unit replied on 16.01.2019 through E-mail. Recommend for sanction of prosecution vide this office letter no. 441 dated 24.01.2019.

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
25	Saraswati Mission Hospital, Ambala Road, Pehowa, Kurukshetra	03.12.2018	Non Complying	pH=8.2 SS=190 BOD=80 COD=264 O & G =6	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	SCN issued vide No. 5224 dated 21.12.2018 and recommend for sanction of prosecution vide this office letter no. 450 dated 24.01.2019.
26	Aggarwal Nursing Home, Salarpur Road, Kurukshetra	03.12.2018	Non Complying	pH=8.8 SS=490 BOD=190 COD=720 O & G =16	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	SCN issued vide No. 5226 dated 21.12.2018 and unit replied on 16.01.2019. Recommend for sanction of prosecution vide this office letter no. 451 dated 24.01.2019.
27	Luxmi Switch Gear Pvt. Ltd., Plot No. 82, Ind. Area, Ph-I, Panchkula.	23.01.2019	Non Complying1. Sludge drying bed not provided by the unit.2. Reaction unit not proper.3. pH meter not working.4. Flow meter on outlet of unit not provided.5. Storage site for hazardous waste not provided.	pH=7.89SS=14BOD=9COD=34.4O & G =ND	pH=5.5-9SS=100BOD=30COD=250O & G =10	SCN issued vide No. 467 dated 25.01.2019.
28	Venus Remedies Limited, 51-52, Industrial Area, Ph-I, Panchkula	23.01.2019	Non Complying 1. Agreement of unit made with TSDF-GEPIL expired on 21.02.2018. 2. No storage site of Hazardous Waste	pH=8.4 SS=14 BOD=15.6 COD=49.2	pH=5.5-9 SS=100 BOD=30 COD=250	SCN issued vide No. 461 dated 25.01.2019.

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
			provided. 3. No record of Hazardous Waste transported to GEPIL. 4. Logbook not maintained properly. 5. Kitchen wasted is discharged directly into sewer without treatment. 6. Boiler erection done without taking CTE expansion from HSPCB.	O & G =ND Lead=ND Hexavalent Chromium=ND Total Chromium=ND Copper=ND Zinc=0.065 Nickel=ND Dissolved phosphates=ND Sulphide=ND Iron=0.057	O & G =10 Lead=0.1 Dissolved Phosphate=5.0 Sulphide=2.0	
29	A.K. International, Plot No. 267, Ind. Area, Ph-I, Panchkula.	23.01.2019	Non Complying1. Board of Hazardous Waste information not provided by the unit at the entrance gate.2. Proper storage room for hazardous waste not provided.3. Housekeeping conditions not good.4. Dosing of poly electrolyte not proper.	pH=6.62SS=14COD=38.4O & G= NDAmmonical Nitrogen=NDCopper=0.004 Zinc=0.274Nickle=0.1Iron= 1.347Total Chromium=NDHexavalent Chormium=NDLead =ND	pH=5.5-9SS=100COD=250 O & G =10Iron=3.0Ammonical Nitrogen=50	SCN issued vide No. 463 dated 25.01.2019
30	Raghav Industries, Plot No. 392, I.A, Phase-II, Panchkula	12.11.2018	Complying	pH=6.59 SS=78 BOD=28 COD=140 O & G =ND	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	NA
31	DLF Homes Panchkula Pvt. Ltd, Vill. Islam Nagar, Bhagwanpur, Sec-3, Distt. Panchkula	27.11.2018	Complying	pH=7.34 SS=7 BOD=14 COD=65.2 O & G =ND	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10	NA
32	Troika International Pvt.	20.09.2018	Complying	pH=6.89SS=24COD=90O &	pH=5.5-	NA

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
	Ltd., # 248, Ind-Area, PH-1, Panchkula			G =2.5Ammonical Nitrogen=NDZinc=0.45Chromium=0.26Hexavalent Chromium=0.05Nickle=0.14Copper=0.62Iron=0.36Total Metal=1.83	9SS=100COD=250 O & G =10Ammonical Nitrogen=50Zinc=5Chromium=2Hexavalent Chromium=0.1Nickle=3Copper=3Iron=3Total Metal=10	
33	WELCOME CROP HEALTH PRODUCTS VILL & PO. MOULI, PANCHKULA	24.09.2018	Complying	pH=7.84 SS=8 BOD=9 COD=48.8 O & G =ND Calcium=140 Magnisium=63.18 Phenolic Compound=ND Copper=ND Zinc=0.3 Nickle=ND Iron=0.7 Total Chromium=ND Hexavalent Chromium=ND Dissolved Phosphate= 0.844 Nitrate=1.327	pH=5.5-9 SS=100 BOD=30 COD=250 O & G =10 Phenolic Compound=1.0	NA
34	5 MLD STP MOTI NAGAR,	09.08.2018	Complying	pH=7.41	pH=5.5-9	NA

Sr. No.	Name of unit	Date of inspection	Observations if the unit found non-complying otherwise write complying	Sampling results of effluent (results of the last sample to be given if not collected on the day of inspection)	Permissible limits of effluent samples	Compliance status / Remarks/ ATR
	Ambala			SS=10 BOD=17 COD=59.6 O & G =ND	SS=100 BOD=30 COD=250 O & G =10	
35	Panchkula Roller Flour Mills Ltd., Plot No. 79, Ind. Area, Phase-I, PKL	04.12.2018	Complying	pH=7.3SS=18BOD=12COD=49.2O & G =ND	pH=5.5-9SS=100BOD=30COD=250O & G =10	NA

Annexure-6

List of closed industries w.e.f. 01.08.2018.

Name & address of the Unit	Closure order Date	Reason for Closure	Present Status
Unit of Sh. Baru Ram S/o Sh. Sumittr Pal R/o Village Gumthala Gahru, Distt. Kurukshetra.	13.08.2018	Illegal operating without CTE/CTO	Unit still lying closed
Unit of Sh. Jethu Ram S/o Sh. Surja Ram. R/o Village Gumthala Gahru, Pehowa, Distt. Kurukshetra.	07.08.2018	Illegal operating without CTE/CTO	Unit still lying closed
Unit of Sh. Jasbir Singh, R/o Village Gumthala Gahru, Pehowa, Distt. Kurukshetra	07.08.2018	Illegal operating without CTE/CTO	Unit still lying closed
Manpreet casting, Naraingarh Road, Katholi, Ambala	14.09.2018	Illegal operating without CTE/CTO	Closed by Board
Frontier agencies, Vill-Dukheri, Ambala Road, Ambala Cantt.	31.08.2018	Illegal operating without CTE/CTO	Unit still lying closed
Guru Nank Screening plant, Vill-Miyanpur, Ambala	31.08.2018	Illegal operating without CTE/CTO	Unit still lying closed
Shree Krishna Foods & Beverages, Near-Keshopur, Vill-Manglai, Saha Road, Ambala Cantt.	31.08.2018	Illegal operating without CTE/CTO	Unit still lying closed
Luxmi Engineering works, Vill-Khuda Khurd, Saha, Ambala	31.08.2018	Illegal operating without CTE/CTO	Closed by Board
Sidak Automobiles, VPO-Khuddi Saha, ambala	31.08.2018	Illegal operating without CTE/CTO	Closed by Board
Beena Traders(Inside Sanjay Agro industry), Behind- Partap Fabric, Dukheri Road, NH-1, Ambala Cantt.	15.11.2018	Illegal operating without CTE/CTO	Unit still lying closed
Markanda Enterprises, Ambala	20.12.2018	Illegal operating without CTE/CTO	Closed by Board
Simran Ice Factory, Nahan House, Ambala	20.12.2018	Illegal operating without CTE/CTO	Closed by Board
Pavani Infracon Ltd., Vill-Khetpurali, Panchkula	02.01.2019	Illegal operating without CTE/CTO	Closed by Board
Gupta Lime, Vill-Golpura, Barwala, Panchkula	02.01.2019	Illegal operating without CTE/CTO	Closed by Board
Sidhigan Plywood, Vill-Shahzadpur, Tehsil-Naraingarh, Ambala	02.01.2019	Illegal operating without CTE/CTO	Closed by Board
Supreme Engineers, Ambala	02.01.2019	Illegal operating without CTE/CTO	Closed by Board

Annexure-7

Action Plan of Irrigation Department for De-silting/ cleaning of drains in the catchment of River Ghaggar.

Sr. No.	Name of Drain to be Desilted	Timelines for the execution of cleaning work
	BWS Kaithal	
1.	Internal clearance of Saraswati Drain RD. 0-5000	May/June/2018
2.	Internal clearance of Kakrala Inyat Link Drain RD 0-16900	May/June/2018
3.	Internal clearance of Ghaggar Creak Drain RD. 0-50730	May/June/2018
4.	Internal clearance of Saraswati Drain RD. 0-14000	May/June/2018
5.	Internal clearance of Meerapur Choe Drain RD. 44500-52000	May/June/2018
6.	Internal clearance of Papsar Link Drain RD. 0-21300	May/June/2018
7.	Internal clearance of Nauch Mangna Link Drain RD. 0-9200	May/June/2018
8.	Internal clearance of Devigarh Link Drain RD. 0-12000.	May/June/2018
9.	Internal clearance of Geong Link Drain RD. 18000-34000	May/June/2018
10.	Removing Jungle clearance of Kaithal Drain RD. 91987-132800	May/June/2018
11.	Removing Jungle clearance of Kaithal Drain RD. 108600-91987	May/June/2018
12.	Removing Jungle clearance of Kaithal Drain RD. 91987-97500	May/June/2018
13.	Removing Jungle clearance of Kaithal Drain RD. 127500-108600	May/June/2018
14.	Removing Jungle clearance of Kaithal Drain RD. 56000-91987	May/June/2018
15.	Removing Jungle clearance of Mago Majri Link Drain Rd. 0-24100	May/June/2018
16.	Removing Jungle clearance of Manas Link Drain Rd. 0-18500	May/June/2018
17	Amin Drain from RD 0-140000	May/June/2018
18	Pundri Drain No.1 from RD 0-99590	May/June/2018
19	Kassan Drain from RD 0-59090	May/June/2018
20	Pundri Link Drain from RD 0-22743	May/June/2018
21	Peoda L-Drain from RD 0-30240	May/June/2018
22	Peoda Sub L-Drain from RD 0-12160	May/June/2018
23	Titram L-Drain from RD 0-9000	May/June/2018
24	Fatehpur L-Drain from RD 0-9300	May/June/2018
25	Kailram L-Drain from RD 0-10300	May/June/2018
26	Kaul link drain RD 0-5000	May/June/2018
	BWS Sirsa	
1	Internal clearance of Rori Ghaggar Drain from RD 100000 to 130750-Tail and its 4 Nos.subsidiary drains. A. Surtia Link Drain No. II RD 0- 7500 B. Surtia Sub Link Drain No. I RD 0- 5300 C. Surtia Sub Link Drain No. II RD 0- 4600 D. Surtia Sub Link Drain No. III RD 0- 800	Completed upto 30.06.2018
2	Internal Clearance of Rania Link Drain from RD 0- 13000 Tail	Completed upto 30.06.2018
3	Link Drain No. 1 (Jhorar Rohi) RD 0- 3500	Completed upto 30.06.2018
4	Internal clearance of HGMPD RD 0- 141000	Completed upto 30.06.2018

Sr. No.	Name of Drain to be Desilted	Timelines for the execution of cleaning work
5	Rangoi Kharif Channel	Completed upto 30.06.2018
6	Banmandori Drain No. 1	Completed upto 30.06.2018
7	Banmabndori Field Drain II	Completed upto 30.06.2018
8	Banmabndori Field Drain III	Completed upto 30.06.2018
9	Banmandori Drain No. 4.	Completed upto 30.06.2018
10	Banmandori Ditch Drain outfalliang at RD 400-L	Completed upto 30.06.2018
11	Nathusari Link Drain RD 0- 9750	Completed upto 30.06.2018
12	Darba Link Drain	Completed upto 30.06.2018
	BWS Fatehabad	
1	Sirhind Choe RD 0-19580	Completed upto 30.06.2018
2	Rangoi Diversion Drain RD 0-14350	Completed upto 30.06.2018
3	Bareta Drain RD 0-28730	Completed upto 30.06.2018
4	Toderpur Link Drain RD 0-7100	Completed upto 30.06.2018
5	Gorakhpur Drain RD 0-7200	Completed upto 30.06.2018
6	Pariphari Drain RD 0-8900	Completed upto 30.06.2018
7	Unchu Drain RD 0-4850	Completed upto 30.06.2018
8	Mahmadpur Rohi Pucca Drain RD 0-9000	Completed upto 30.06.2018
9	M-III Drain RD 425-8000	Completed upto 30.06.2018
10	Kirdhan Link Drain RD 0-10000	Completed upto 30.06.2018
11	Bhattu Link Drain RD 0-8000	Completed upto 30.06.2018
12	Rangoi Kharif Channell RD 0-153600	Completed upto 30.06.2018
13	Hisar Ghaggar Multipurpose Channel RD 141000 -205230	Completed upto 30.06.2018
14	Gorakhpur Link Drain RD 0-5200	Completed upto 30.06.2018
	BWS-I Hisar	
1	Drain 'A' -6220 ft	Cleared before 30.06.2018
2	Drain 'D'-15000ft	Cleared before 30.06.2018
3	Drain 'E'-3750ft	Cleared before 30.06.2018
4	Drain 'F'-1500ft	Cleared before 30.06.2018
5	Drain 'G'-3000ft	Cleared before 30.06.2018
6	Drain 'M'-6000ft	Cleared before 30.06.2018
7	Drain 'N'-6000ft	Cleared before 30.06.2018
8	Drain 'X'-7000ft	Cleared before 30.06.2018
9	Drain 'Y'-7000ft	Cleared before 30.06.2018
10	Dabra Ditch Drain-6500ft	Cleared before 30.06.2018
11	Ditch Drain along Barwala Branch RD 120000 to 129000 and 103000 to 108000 R/Side of Barwala Branch-14000ft	Cleared before 30.06.2018
12	Ghirai Field Drains.-6000ft	Cleared before 30.06.2018
13	Hisar Drain-98000ft	Cleared before 30.06.2018
14	Hisar Ghaggar Multipurpose Channel-128950ft+64420ft=193370ft	Cleared before 30.06.2018
15	Kabir Link Drain-4900ft	Cleared before 30.06.2018
16	Khanpur Sisai Link Drain-47000ft	Cleared before 30.06.2018
17	Khokha Link Drain-2350ft	Cleared before 30.06.2018
18	Mirkan Field Drain-3000ft	Cleared before 30.06.2018
19	Mirzapur Field Drain-7500ft	Cleared before 30.06.2018
20	Raipur Link Drain-6500ft	Cleared before 30.06.2018
21	Satrod Mirka Drain-37400ft	Cleared before 30.06.2018
22	Badala Drain O/F RD 123275-R, BMC-3800ft	Cleared before 30.06.2018
23	Badala 'A' Drain O/F RD 119640-R, BMC-3970ft	Cleared before 30.06.2018

Sr. No.	Name of Drain to be Desilted	Timelines for the execution of cleaning work
24	Badchapper Drain-4000ft	Cleared before 30.06.2018
25	Bas Multipurpose channel-155580 ft	Cleared before 30.06.2018
26	Bass Ptr. Drain O/F RD 40000-R, Siwani Feeder- 18750ft	Cleared before 30.06.2018
27	Bass 'A' Drain O/F RD 14800-R, Bass Kharbala Drain-8000ft	Cleared before 30.06.2018
28	Bass Kharbala Drain O/F RD 157500-R, SS Branch-18750ft	Cleared before 30.06.2018
29	Bass Kharbala Field Drain O/F RD 104000-L, BMC-27600ft	Cleared before 30.06.2018
30	Bhaklana Drain O/F RD 8100-L, Bass Petwar Drain-20000ft	Cleared before 30.06.2018
31	Bhatol Drain-26350ft	Cleared before 30.06.2018
32	Budana Drain-10350ft	Cleared before 30.06.2018
33	D/Drain along H M Disty -48600ft	Cleared before 30.06.2018
34	D/Drain along H M Disty -37800ft	Cleared before 30.06.2018
35	D/Drain along H M Disty left side-31300ft	Cleared before 30.06.2018
36	Dhani Kendu Dr-7100ft	Cleared before 30.06.2018
37	Dhani Pal Drain O/F RD 25000-R, Bhatla Minor-11215ft	Cleared before 30.06.2018
38	Hansi Drain O/F RD 62000-L, Balsamand S/Br.-81325ft	Cleared before 30.06.2018
39	Hansi Multipurpose Channel O/F RD 125-R, BMC-38320ft	Cleared before 30.06.2018
40	Jamawari Drain O/F RD 14075-L, Kumbha Drain-4200ft	Cleared before 30.06.2018
41	Kharkra Drain O/F RD 12300-R, Bhatol Drain-9650ft	Cleared before 30.06.2018
42	Kharkra 'A' Drain O/F RD 21300-R, Bhatol Drain-3800ft	Cleared before 30.06.2018
43	Khumba Drain O/F RD 72400, Hansi Drain-25100ft	Cleared before 30.06.2018
44	Lohari Drain-17440ft	Cleared before 30.06.2018
45	Mohalla Bhaklana Drain O/F RD 17000-L, Bhaklana Drain-2600ft	Cleared before 30.06.2018
46	Moth Link Drain O/F RD 47676-R, Sisai Drain-37246ft	Cleared before 30.06.2018
47	Narnaund Drain O/F RD 37246, Moth Drain-19689ft	Cleared before 30.06.2018
48	Petwar Link Drain O/F RD 30280-L, Thurana Drain-16000ft	Cleared before 30.06.2018
49	Puthi Drain-2464ft	Cleared before 30.06.2018
50	Puthi 'A' Drain-790ft	Cleared before 30.06.2018
51	Puthi Mundal Link Drain-49970ft	Cleared before 30.06.2018
52	Singhwa 'A' Drain O/F RD 23890, Puthi Mundhal Link Dr.-3700ft	Cleared before 30.06.2018
53	Singhwa Drain-2800ft	Cleared before 30.06.2018
54	Sisai Bola Drain-4500ft	Cleared before 30.06.2018
55	Sisai Drain O/F RD 31225-R, Hansi Drain-55089ft	Cleared before 30.06.2018
56	Sorkhi Drain O/F RD 91450-L, BMC-9650ft	Cleared before 30.06.2018
57	Sulchani Drain-9000ft	Cleared before 30.06.2018
58	Thurana Drain O/F RD 78350, Hansi Drain-30280ft	Cleared before 30.06.2018
59	Ugalan Drain O/F RD 37000-L, New Siwani Feeder-30000ft	Cleared before 30.06.2018
	SYL Ambala	
1	SYL Parallel drain RD 0-31711	30.06.2018
2	Baknour drain RD 0-8500.	29.06.2018
3	Baknour area drain RD 0-7000	26.06.2018
4	Jodha Nallah RD 0-18000	29.06.2018
5	Khera Nadiali drain 0-12550	25.06.2018
6	Sullar drain RD 0-20100 (Except 10800 –8200)	21.06.2018
7	Barouli Drain RD 0-2000	24.06.2018
8	Chaurmastpur drain RD 0-7700	22.06.2018

Sr. No.	Name of Drain to be Desilted	Timelines for the execution of cleaning work
9	Ganda Nallah RD 0-69000	30.06.2018
10	Outfall link drain RD 0-2800	26.06.2018
11	Ghaggar creek in downstream portion of Ghel drain.	30.06.2018
12	Drain along Ghel Road right side from RD 0-4000	18.06.2018
13	Drain along Ghel Road left side from RD 0-4300	25.06.2018
12	Ghallary drain RD 0-3500	29.06.2018
13	Ghallery link drain D/S Inlet RD 0-3240	29.06.2018
14	Hemamjra Ghallary drain 0-4600	30.06.2018
15	Allahapur drain (Harda Hardi) RD 0-10800	30.06.2018
16	Dhanana Choe	06.07.2018
17	Holi drain RD 0-2600	27.06.2018
18	Milkdhan Kota drain 0-3800	02.07.2018
19	Gokalgarh drain RD 0-5000	25.06.2018
20	Pathehri drain RD 0-19800	16.07.2018
21	Panjeton drain RD 0-4000	27.06.2018
22	Tepla drain RD 0-35000	01.07.2018
23	Khuda drain RD 0-2200	07.06.2018
24	Mahesh Nagar drain RD 0-42000 except 6000 to 15000	04.07.2018
25	Cunnettee of D/S Inlet of Mahesh Nagar drain RD 0-2132	30.06.2018
26	Singhawala drain RD 0-6650	21.06.2018
27	Kanshi Nagar drain RD 0-2360	17.06.2018
28	Gurguria Nallah RD 0-2350	19.06.2018
29	Air field diversion drain from RD 0-18424	03.07.2018
30	3 Nos. Air field drain	20.06.2018
31	Ambala Drain	22.06.2018
32	Ghel Drain	22.06.2018
Drains to be desilted/cleared during 2019		
Sr. No.	**BWS Kaithal**	**Timelines for the execution of cleaning work**
1.	Internal clearance of Saraswati Drain RD. 0-5000	April-June, 2019.
2.	Internal clearance of Kakrala Inyat Link Drain RD 0-16900	-do-
3.	Internal clearance of Ghaggar Creak Drain RD. 0-50730	-do-
4.	Internal clearance of Saraswati Drain RD. 0-14000	-do-
5.	Internal clearance of Meerapur Choe Drain RD. 44500-52000	-do-
6.	Internal clearance of Papsar Link Drain RD. 0-21300	-do-
7.	Internal clearance of Nauch Mangna Link Drain RD. 0-9200	-do-
8.	Internal clearance of Devigarh Link Drain RD. 0-12000.	-do-
9.	Internal clearance of Geong Link Drain RD. 18000-34000	-do-
10.	Removing Internal clearance & Jungle clearance of Kaithal Drain RD. 18000-163600	-do-
11.	Removing Internal clearance & Jungle clearance of Mago Majri Link Drain Rd. 0-24100	-do-
12.	Removing Internal clearance & Jungle clearance of Manas Link Drain Rd. 0-18500	-do-
13	Amin Drain from RD 0-140000,	-do-
14	Pundri Drain No.1 from RD 0-99590	-do-
15	Kassan Drain from RD 0-59090	-do-
16	Pundri Link Drain from RD 0-22743	-do-
17	Peoda L-Drain from RD 0-30240	-do-
18	Peoda Sub L-Drain from RD 0-12160	-do-
19	Titram L-Drain from RD 0-9000	-do-
20	Fatehpur L-Drain from RD 0-9300	-do-

Sr. No.	Name of Drain to be Desilted	Timelines for the execution of cleaning work
21	Kailram L-Drain from RD 0-10300	-do-
22	Kaul link drain RD 0-5000	-do-
	BWS Sirsa	
1	Internal clearance of Rori Ghaggar Drain from RD 100000 to 130750-Tail and its 4 Nos. subsidiary drains. A. Surtia Link Drain No. II RD 0- 7500 B. Surtia Sub Link Drain No. I RD 0- 5300 C. Surtia Sub Link Drain No. II RD 0- 4600 D. Surtia Sub Link Drain No. III RD 0- 800	April to June, 2019
2	Internal Clearance of Rania Link Drain from RD 0-13000 Tail	April to June, 2019
3	Link Drain No. 1 (Jhorar Rohi) RD 0- 3500	April to June, 2019
4	Internal clearance of HGMPD RD 0- 141000	April to June, 2019
5	Rangoi Kharif Channel	April to June, 2019
6	Banmandori Drain No. 1	April to June, 2019
7	Banmabndori Field Drain II	April to June, 2019
8	Banmabndori Field Drain III	April to June, 2019
9	Banmandori Drain No. 4.	April to June, 2019
10	Banmandori Ditch Drain outfalliang at RD 400-L	April to June, 2019
11	Nathusari Link Drain RD 0- 9750	April to June, 2019
12	Darba Link Drain	April to June, 2019
	BWS Fatehabad	
1	Rangoi Nallah Km 0-14.672	May to June, 2019
2	Sirhind Choe RD 0-19580	May to June, 2019
3	Rangoi Diversion Drain RD 0-14350	May to June, 2019
4	Bareta Drain RD 0-28730	May to June, 2019
5	Toderpur Link Drain RD 0-7100	May to June, 2019
6	Gorakhpur Drain RD 0-7200	May to June, 2019
7	Pariphari Drain RD 0-8900	May to June, 2019
8	Unchu Drain RD 0-4850	May to June, 2019
9	Mahmadpur Rohi Pucca Drain RD 0-9000	May to June, 2019
10	M-III Drain RD 425-8000	May to June, 2019
11	Kirdhan Link Drain RD 0-10000	May to June, 2019
12	Bhattu Link Drain RD 0-8000	May to June, 2019
13	Rangoi Kharif Channell RD 0-153600	May to June, 2019
14	Hisar Ghaggar Multipurpose Channel RD 141000 -205230	May to June, 2019
15	Gorakhpur Link Drain RD 0-5200	May to June, 2019
16	Matkana Drain RD 0-5000	May to June, 2019
	BWS-I Hisar	
1	Drain 'A' -6220 ft	May to June, 2019
2	Drain 'D'-15000ft	May to June, 2019
3	Drain 'E'-3750ft	May to June, 2019
4	Drain 'F'-1500ft	May to June, 2019
5	Drain 'G'-3000ft	May to June, 2019
6	Drain 'M'-6000ft	May to June, 2019

Sr. No.	Name of Drain to be Desilted	Timelines for the execution of cleaning work
7	Drain 'N'-6000ft	May to June, 2019
8	Drain 'X'-7000ft	May to June, 2019
9	Drain 'Y'-7000ft	May to June, 2019
10	Dabra Ditch Drain-6500ft	May to June, 2019
11	Ditch Drain along Barwala Branch RD 120000 to 129000 and 103000 to 108000 R/Side of Barwala Branch-14000ft	May to June, 2019
12	Ghirai Field Drains.-6000ft	May to June, 2019
13	Hisar Drain-98000ft	May to June, 2019
14	Hisar Ghaggar Multipurpose Channel-128950ft+64420ft=193370ft	May to June, 2019
15	Kabir Link Drain-4900ft	May to June, 2019
16	Khanpur Sisai Link Drain-47000ft	May to June, 2019
17	Khokha Link Drain-2350ft	May to June, 2019
18	Mirkan Field Drain-3000ft	May to June, 2019
19	Mirzapur Field Drain-7500ft	May to June, 2019
20	Raipur Link Drain-6500ft	May to June, 2019
21	Satrod Mirka Drain-37400ft	May to June, 2019
22	Badala Drain O/F RD 123275-R, BMC-3800ft	May to June, 2019
23	Badala 'A' Drain O/F RD 119640-R, BMC-3970ft	May to June, 2019
24	Badchapper Drain-4000ft	May to June, 2019
25	Bas Multipurpose channel-155580 ft	May to June, 2019
26	Bass Ptr. Drain O/F RD 40000-R, Siwani Feeder- 18750ft	May to June, 2019
27	Bass 'A' Drain O/F RD 14800-R, Bass Kharbala Drain-8000ft	May to June, 2019
28	Bass Kharbala Drain O/F RD 157500-R, SS Branch-18750ft	May to June, 2019
29	Bass Kharbala Field Drain O/F RD 104000-L, BMC-27600ft	May to June, 2019
30	Bhaklana Drain O/F RD 8100-L, Bass Petwar Drain-20000ft	May to June, 2019
31	Bhatol Drain-26350ft	May to June, 2019
32	Budana Drain-10350ft	May to June, 2019
33	D/Drain along H M Disty -48600ft	May to June, 2019
34	D/Drain along H M Disty -37800ft	May to June, 2019
35	D/Drain along H M Disty left side-31300ft	May to June, 2019
36	Dhani Kendu Dr-7100ft	May to June, 2019
37	Dhani Pal Drain O/F RD 25000-R, Bhatla Minor-11215ft	May to June, 2019
38	Hansi Drain O/F RD 62000-L, Balsamand S/Br.-81325ft	May to June, 2019
39	Hansi Multipurpose Channel O/F RD 125-R, BMC-38320ft	May to June, 2019
40	Jamawari Drain O/F RD 14075-L, Kumbha Drain-4200ft	May to June, 2019
41	Kharkra Drain O/F RD 12300-R, Bhatol Drain-9650ft	May to June, 2019
42	Kharkra 'A' Drain O/F RD 21300-R, Bhatol Drain-3800ft	May to June, 2019
43	Khumba Drain O/F RD 72400, Hansi Drain-25100ft	May to June, 2019
44	Lohari Drain-17440ft	May to June, 2019
45	Mohalla Bhaklana Drain O/F RD 17000-L, Bhaklana Drain-2600ft	May to June, 2019
46	Moth Link Drain O/F RD 47676-R, Sisai Drain-37246ft	May to June, 2019
47	Narnaund Drain O/F RD 37246, Moth Drain-19689ft	May to June, 2019
48	Petwar Link Drain O/F RD 30280-L, Thurana Drain-16000ft	May to June, 2019
49	Puthi Drain-2464ft	May to June, 2019
50	Puthi 'A' Drain-790ft	May to June, 2019
51	Puthi Mundal Link Drain-49970ft	May to June, 2019

Sr. No.	Name of Drain to be Desilted	Timelines for the execution of cleaning work
52	Singhwa 'A' Drain O/F RD 23890, Puthi Mundhal Link Dr.-3700ft	May to June, 2019
53	Singhwa Drain-2800ft	May to June, 2019
54	Sisai Bola Drain-4500ft	May to June, 2019
55	Sisai Drain O/F RD 31225-R, Hansi Drain-55089ft	May to June, 2019
56	Sorkhi Drain O/F RD 91450-L, BMC-9650ft	May to June, 2019
57	Sulchani Drain-9000ft	May to June, 2019
58	Thurana Drain O/F RD 78350, Hansi Drain-30280ft	May to June, 2019
59	Ugalan Drain O/F RD 37000-L, New Siwani Feeder-30000ft	May to June, 2019
	SYL Ambala	
1	SYL Parallel drain RD 0-31711	To be desilted during April-June, 2019.
2	Baknour drain RD 0-8500.	-do-
3	Baknour area drain RD 0-7000	-do-
4	Jodha Nallah RD 0-18000	-do-
5	Khera Nadiali drain 0-12550	-do-
6	Sullar drain RD 0-20100 (Except 10800 –8200)	-do-
7	Barouli Drain RD 0-2000	-do-
8	Chaurmastpur drain RD 0-7700	-do-
9	Ganda Nallah RD 0-69000	-do-
10	Outfall link drain RD 0-2800	-do-
11	Ghaggar creek in downstream portion of Ghel drain.	-do-
12	Drain along Ghel Road right side from RD 0-4000	-do-
13	Drain along Ghel Road left side from RD 0-4300	-do-
12	Ghallary drain RD 0-3500	-do-
13	Ghallery link drain D/S Inlet RD 0-3240	-do-
14	Hemamjra Ghallary drain 0-4600	-do-
15	Allahapur drain (Harda Hardi) RD 0-10800	-do-
16	Dhanana Choe	-do-
17	Holi drain RD 0-2600	-do-
18	Milkdhan Kota drain 0-3800	-do-
19	Gokalgarh drain RD 0-5000	-do-
21	Pathehri drain RD 0-19800	-do-
22	Panjeton drain RD 0-4000	-do-

Sr. No.	Name of Drain to be Desilted	Timelines for the execution of cleaning work
20	Tepla drain RD 0-35000	-do-
25	Khuda drain RD 0-2200	-do-
26	Mahesh Nagar drain RD 0-42000 except 6000 to 15000	-do-
27	Cunnettee of D/S Inlet of Mahesh Nagar drain RD 0-2132	-do-
28	Singhawala drain RD 0-6650	-do-
29	Kanshi Nagar drain RD 0-2360	-do-
30	Gurguria Nallah RD 0-2350	-do-
31	Air field diversion drain from RD 0-18424	-do-
32	3 Nos. Air field drain	-do-
33	Ambala Drain	-do-
34	Ghel Drain	-do-

Annexure-8

Action Plan of ULB Department for De-silting/ cleaning of drains in the catchment of River Ghaggar

Name of Town: MC Hissar		
Sr.No	**Name of Drain**	**Target date of Desilting**
1	Sector 13 Drain	31.05.2019
2	Sector 14 Drain	31.05.2019
3	Sector 15 Drain	31.05.2019
4	Sector 16 & 17 Drain	31.05.2019
5	Sector 9 & 11 Drain	31.05.2019
6	Urban Estate-II	31.05.2019
7	Mela Ground	31.05.2019
8	P.L.A	31.05.2019
9	DHS Road	30.06.2019
Name of Town: Pehowa		
13	Ambala Kaithal Road on both side	30.06.2019
Name of Town: Jind		
14	Harijan Basti Road Nala	30.04.2019
15	Arya Samaj Mandir Road Nala	30.04.2019
Name of Town: Ambala		
16	Session Drain	25.03.2019
17	INCO Drain	15.03.2019
18	Ghel Drain	25.02.2019
19	Gudgudia Nala	25.03.2019
20	Mahesh Nagar Nala	18.03.2019
21	Subhash Park Nala	15.03.2019
22	Rangla Mandi nala	18.03.2019
23	Central Nala	18.03.2019
Name of Town: Barwala		
24	Nala at Banbhori Road	31.03.2019
25	Nala at Kharkda Road	31.03.2019
26	Union Bank to Bijli Board Both Side NH-65/52	31.03.2019
27	Nala at Daulatpur Road	31.03.2019
Name of Town: Barwala		
31	Anaj Mandi to Pashu Fatak	30.04.2019
32	Balmiki Basti To Pashu Fatak	30.04.2019
33	Mehar Chand To Holi Wala Johar	30.04.2019
34	Dhokalmal park to BR Hotal	30.04.2019
35	Petrol Pump to Kalar wala Johar	30.04.2019
36	Lodha Service Station to Pashu Hospital	30.04.2019
37	Badwala kua to Holi wala johar	30.04.2019
Name of Town: Panchkula		
39	Drains of Vishwakarma Colony, Bhima Devi, Shiv Shakti, Main Nalla along NH-22, Ratpur, Dharampur, Forest Complex, Bhogpur, Damdama ,Surajpur, Rajipur, Rampur Suidi,Chandimandir, Chandikotla	31.03.2019
40	Rambagh Road, Gandhi Chowk to railway Road.	31.03.2019

Annexure-9

Monitoring of STPs in the catchment area of river Ghaggar

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
1.	**3.25 MLD STP Naya Gaon, Unit-I, Ambala City by PHED in Janurary, 2011**										
		4074 dt. 30.01.2018	10	36.4	7.52	22	ND				Complying
		4566 dt. 03.05.2018	8	48.8	7.31	11	ND				Complying
		4673 dt. 18.05.2018	12	57.6	7.36	15	ND				Complying
		4958 dt. 09.08.2018	14	49.2	7.59	13	ND				Complying
		5250, 26.10.2018	10	44	7.16	7	ND				Complying
2.	**3.25 MLD STP Naya Gaon, Unit-II Ambala City by PHED in 1.4.2016**										
		4073 dt. 30.01.2018	12	37.2	7.23	20	ND				Complying
		4567 dt. 03.05.2018	11	39.6	7.34	10	ND				Complying
		4674 dt. 18.05.2018	16	52.4	7.11	23	ND				Complying
		4959, 09.08.2018	9	38.4	7.39	14	ND				Complying
		5251, 26.10.2018	14	58	7.11	13	ND				Complying
3.	**2 MLD STP Sec-7, Urban Estate, Ambala City Ambala by HUDA in 10.9.2015**										
		4072 dt. 30.01.2018	12	39.6	8.36	19	ND				Complying
		4571 dt. 03.05.2018	12	47.2	7.38	15	ND				Complying
		4966 dt. 09.08.2018	12	50	7.46	15	ND				Complying
4.	**5 MLD Baldev Nagar, Unit-I, Ambala City by PHED 1.12.2012**										
		4078 dt. 30.01.2018	11	38.4	8.4	10	ND				Complying
		4568 dt. 03.05.2018	19	102.8	7.5	15	ND				Complying
		4668 dt. 18.05.2018	52	180.8	7.6	22	4.5				Non Complying
		4761 dt. 19.06.2018	21	129.6	7.61	31	2.5				Complying
		4965 dt. 09.08.2018	15	67.2	7.62	12	ND				Complying
		5253, 26.10.2018	9	42	7.17	9	ND				Complying
5.	**3.25 Baldev Nagar, Unit-II, Ambala City by PHED in 1.4.2016**										
		4079 dt. 30.01.2018	12	39.2	7.26	33	ND				Complying
		4569 dt. 03.05.2018	21	107.6	7.54	39	ND				Complying

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
		4669 dt. 18.05.2018	56	200.4	7.71	32	8				Non Complying
		4760 dt. 19.06.2018	20	105	7.35	72	2				Complying
		4964, 09.08.2018	14	51.2	7.63	14	ND				Complying
		5252, 26.10.2018	9	39.6	7.12	8	ND				Complying
6.	**5 MLD Moti Nagar, Unit-I, Ambala City by PHED in June 2010**										
7.		4077 dt. 30.01.2018	9	35.2	8.2	11	ND				Complying
		4563 dt. 03.05.2018	10	43.2	7.31	18	ND				Complying
		4671 dt. 18.05.2018	12	46	7.21	14	ND				Complying
		4960 dt. 09.08.2018	11	35.6	7.82	13	ND				Complying
		5249, 26.10.2018	11	45.6	7.14	9	ND				Complying
8.	**5 MLD STP Moti Nagar, Unit-II, Ambala City by PHED Ambala in 1.8.2016**										
		4076 dt. 30.01.2018	13	36	7.64	32	ND				Complying
		4565 dt. 03.05.2018	9	39.6	7.34	13	ND				Complying
		4672 dt. 18.05.2018	13	47.6	7.24	12	ND				Complying
		4961, 09.08.2018	17	59.6	7.41	10	ND				Complying
		5248, 26.10.2018	15	59.2	7.08	10	ND				Complying
9.	**6 MLD STP Modal Town, Ambala City by PHED in 1.7.2012**										
		4071 dt. 30.01.2018	8	47.2	7.18	24	ND				Complying
		4572 dt. 03.05.2018	13	48.8	7.55	17	ND				Complying
		4670 dt. 18.05.2018	14	48.8	7.41	27	3				Complying
		4963 dt. 09.08.2018	14	59.6	7.66	12	ND				Complying
		5246, 26.10.2018	11	66	7.14	8	ND				Complying
10.	**3.25 Nasirpur Ambala City by PHED in 31.9.2016**										
		4080 dt. 30.01.2018	15	57.6	7.44	36	2				Complying
		4563 dt. 30.05.2018	16	59.2	7.61	32	ND				Complying
		4675 dt. 18.05.2018	17	56.8	7.79	34	2				Complying
		4969 dt. 09.08.2018	13	46.8	7.55	11	ND				Complying
		5247, 26.10.2018	12	57.6	7.16	11	ND				Complying
11.	**0.25 MLD Sadopur, Ambala PHED in 31.12.2016**										

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
		4092 dt. 07.02.2018	13	52.8	7.67	15	2				Complying
		4570 dt. 03.05.2018	15	53.2	7.63	14	ND				Complying
		4677dt.18.05 .2018	18	58.8	7.58	12	2				Complying
		4968 dt. 09.08.2018	10	42.8	7.68	11	ND				Complying
		5244, 26.10.2018	10	38.4	7.13	12	ND				Complying
12.	**3.25 MLD Devi Nagar, Ambala City by PHED on 31.5.2013**										
		4070 dt. 30.01.2018	10	30.8	7.59	15	ND				Complying
		4573 dt. 03.05.2018	12	44.8	7.68	9	ND				Complying
		4676 dt.18.05.201 8	64	185	7.58	38	4.5				Non Complying
		4762 dt.19.06.201 8	18	102.4	7.45	60	2				Complying
		4962 dt. 09.08.2018	18	66.4	7.5	12	ND				Complying
		5245, 26.10.2018	10	38	7.15	9	ND				Complying
13.	**3 MLD STP Nariangarh, Ambala by PHED in 1.7.2014**										
		4075 dt. 30.01.2018	14	44.8	7.85	21	ND				Complying
		4574 dt. 03.05.2018	18	88.4	7.46	58	ND				Complying
		4957 dt. 09.08.2018	12	39.6	7.63	35	ND				Complying
		5293, 12.11.2018	12	42	6.58	14	ND				Complying
14.	**8 MLD STP Model Town, Pehowa Kurukshetra by PHED in May, 2015**										
		3996 dt. 16.01.2018	9	42	7.51	32	ND				Complying
		4557 dt. 04.05.2018	12.5	48.2	7.73	14	ND				Complying
		4906 dt. 01.08.2018	11.5	43.6	7.63	13	ND				Complying
		5254, 31.10.2018	9	38	7.29	8	ND				Complying
		22 dt. 16.01.2019	20	92	7.37	52	ND	542000	22000	18.48	Non complying
15.	**11.5 MLD STP Ladwa Road, Shahbad Kurukshetra by PHED in May, 2016**										
		3995 dt. 16.01.2018	8	48	7.83	9	ND				Complying
		4578 dt. 04.05.2018	11	48.8	8.03	12	ND				Complying
		4908 dt. 01.08.2018	14.5	44	7.39	12	ND				Complying
		5255,	11	44.8	6.46	10	ND				Complying

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
		31.10.2018									
		23 dt. 16.01.2019	13	51.2	7.42	22	ND	348000	21000	16.24	Non-Complying
16.	**7 MLD STP Ladwa Kurukshetra by PHED in 31.10.2016**										
		3994 dt. 16.01.2018	8	37.2	7.55	18	ND				Complying
		4576. dt. 04.05.2018	15	57.2	8.02	13	ND				Complying
		4907 dt. 01.08.2018	16	52	7.97	12	ND				Complying
		5256, 31.10.2018	10	42.8	7.21	8	ND				Complying
17.	**18 MLD STP Panchkula by HUDA in 31.12.2002**										
		4002 dt. 17.01.2018	12	56.8	7.53	22	ND				Complying
		4512 dt. 26.04.2018	8	36	7.49	10	ND				Complying
		4866 dt. 18.07.2018	9	40.4	7.62	42	2.5				Complying
		5277, 05.11.2018(18 MLD)	7	34	6.86	18	ND				Complying
		30 dt. 17.01.2019	14	58	7.29	15	ND	220000	5000		
18.	**39 MLD STP Panchkula by HUDA in Nov. 2011**										
		4002 dt. 17.01.2018	9	46.8	7.35	11	ND				Complying
		4511 dt. 26.04.2018	9	38.8	7.84	9	ND				Complying
		4865 dt. 18.07.2018	10	60.4	7.87	25	ND				Complying
		5275, 05.11.2018(39 MLD)	10	47.2	6.83	14	ND				Complying
		30 dt. 17.01.2019	13	55.6	7.28	12	ND	240000	130000		Non complying
19.	**15 MLD STP Panchkula by HUDA in 2012**										
		4001 dt. 17.01.2018	15	46.4	7.35	31	2				Complying
		4510 dt. 26.04.2018	9	40.4	8.3	10	ND				Complying
		4864 dt. 18.07.2018	9	36.4	7.6	12	ND				Complying
		5276, 05.11.2018	8	36.4	6.84	17	ND				Complying
		5325, 12.11.2018	13.5	39.2	7.01	13	ND				Complying
		82 dt.23.01.2019	18	69.2	6.89	24	ND	900000	109000	2.24	non complying
20.	**4.5 MLD Kalka Panchkula by PHED in 30.3.2015**										
		4039 dt. 23.01.2018	15	52.4	7.33	22	2				Complying
		4522 dt. 30.04.2018	9	36.4	7.46	18	ND				Complying

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
		4868 dt. 18.07.2018	9	60	7.61	18	ND				Complying
		5273, 05.11.2018	7.5	35.6	6.85	23	ND				Complying
21.	**0.25 MLD Kalka Panchkula by PHED in 28.5. 2017**										
		Report No. & date	**BOD**	**COD**	**PH**	**TSS**	**Oil & Grease**				**Remarks**
		4040 dt. 23.01.2018	23	105.2	7.72	39	2.5				Complying
		4525 dt. 30.04.2018	10	38.8	7.4	10	ND				Complying
		4871 dt. 23.07.2018	9	36.8	7.48	14	ND				Complying
		5271, 05.11.2018	11	40	6.68	13	ND				Complying
22.	**5 MLD STP Nalagarh Road, Manakpur, Pinjore Panchkula by PHED 31.1.2015**										
		4041 dt. 23.01.2018	18	83.2	7.73	17	ND				Complying
		4524 dt. 30.04.2018	9	36.8	7.55	17	ND				Complying
		4862 dt. 18.07.2018	16	63.6	7.73	20	ND				Complying
		5274, 05.11.2018	8.5	34.8	6.71	10	ND				Complying
		81 dt. 21.01.2019	9.5	58	7.15	25	ND	2400000	270000	3.36	non complying
23.	**9 MLD STP Garrison Engineer, Chandimandir Panchkula in April 2012**										
		4038 dt. 23.01.2018	8.5	45.2	7.69	14	ND				Complying
		4523 dt. 30.04.2018	8	37.6	7.81	11	ND				Complying
		4867 dt. 18.07.2018	7	38.8	7.54	9	ND				Complying
		5272, 05.11.2018	8	38.8	6.6	13	ND				Complying
		6 dt. 11.01.2019	8	41.2	7.07	11	ND	7000	350000	10.08	Non complying
24.	**15 MLD STP by PHED Jind in Jan, 2009**										
		4118 dt. 19.02.18	21	116.4	7.32	60	2.5				Complying
		4441 dt. 10.04.18	110	368	7.33	164	8.5				Non complying
		4797 dt. 26.06.2018	20	85.2	7.49	25	N.D				Non complying
		122 dt. 14.08.18	14	56	7.7	-	N.D				Complying
25.	**10 MLD by HUDA Jind in 27.12.2014**										
		4119 dt. 19.02.18	17	95.2	8.23	26	ND				Complying
		4440 dt. 10.04.18	17	74.4	7.41	18	ND				Complying
		120 dt.	10	32	7.6	10	ND				Complying

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
		14.08.18									
26.	**3.5 MLD Patiala Road, Narwana by PHED in Jan, 2011**										
		4125 dt. 19.02.18	14	58.4	7.28	27	ND				Complying
		4436 dt. 10.04.18	22	101.6	7.31	42	2				Complying
		130 dt. 14.08.18	18	64	7.6	18	ND				Complying
27.	**3.75 MLD STP Narwana Jind by PHED in Jan, 2011**										
		4126 dt. 19.02.18	15	70	7.33	21	ND				Complying
		4434 dt. 10.04.18	20	80.4	7.39	26	ND				Complying
		131 dt. 14.08.18	16	48	7.5	20	ND				Complying
28.	**02 MLD STP, PHED, Dablain Road, Narwana, Jind (24.5.2017)**										
		4124 dt. 19.02.18	16	98	7.3	40	ND				Complying
		4435 dt. 10.04.18	18	74.4	7.27	33	ND				Complying
		132 dt. 14.08.18	18	48	7.8	20	ND				Complying
29.	**2 MLD STP Uchana Jind by PHED in 22.2.2012**										
		4123 dt. 19.02.18	20	108	7.38	64	2				Complying
		4439 dt. 10.04.18	24	108	7.46	52	2.5				Complying
		134 dt. 14.08.18	18	48	7.5	18	ND				Complying
30.	**1.5 MLD Uchana by PHED in 31.5.2013**										
		4122 dt.19.02.18	21	94	7.3	45	2.5				Complying
		4438 dt. 10.04.18	18	73.6	7.28	17	ND				Complying
		133 dt. 14.08.18	16	48	7.7	18	ND				Complying
31.	**5 MLD STP Jind by PHED in 1.4.2016**										
		4121 dt. 19.02.18	18	93.6	7.29	54	ND				Complying
		4442 dt. 10.04.18	16	69.2	6.83	52	ND				Complying
		123 dt. 14.08.18	16	64	7.8	-	ND				Complying
32.	**4 MLD STP Julana, Jind by PHED in 1.4.2016**										
		4120 dt. 19.02.18	18	82.4	6.98	39	ND				Complying
		4434 dt. 10.04.18	19	87.6	7.39	46	2				Complying
		119 dt. 14.08.18	16	56	7.8	22	ND				Complying
33.	**9 MLD STP Safidon, Jind by PHED in 31.05.2018**										
		4796 dt. 26.06.18	17	59.2	7.77	37	ND				Complying
34.	**10 MLD STP Cheeka, Kaithal by PHED in 1.4.2013**										

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
		4114 dt. 16.02.18	9.5	28	8.24	8	ND				Complying
		4446 dt. 11.04.18	13	42.8	7.87	13	ND				Complying
		4681 dt. 28.05.18	7	12.4	7.98	10	ND				Complying
		4980 dt. 09.08.2018	12	38.4	7.41	28	ND				Complying
		5380 dt. 26.11.18	18	85.6	6.68	21	ND				Complying
35.	**10 MLD STP, Jind Road Kaithal by PHED in September, 2012**										
		4110 dt.16.02.18	9	33.2	8.19	14	ND				Complying
		4449 dt. 11.04.18	15	54.4	7.97	11	ND				Complying
		4814 dt. 09.07.18	12	38.4	7.63	17	ND				Complying
		4987 dt. 09.08.2018	12	48	7.36	46	ND				Complying
		5382 dt. 26.11.18	19	86.8	6.76	37	2				Complying
36.	**10 MLD STP Manas Road, Kaithal by PHED in June, 2006**										
		4111 dt. 16.02.18	9	37.2	8.37	8	ND				Complying
		4448 dt. 11.04.18	12	39.2	7.88	14	ND				Complying
		4683 dt. 28.05.18	18	87.2	7.75	9	ND				Complying
		4815 dt. 09.07.18	14	52.4	7.71	25	ND				Complying
		4985 dt. 09.8.2018	15	68.8	7.47	10	ND				Complying
		5381 dt. 26.11.18	14	50.4	6.76	24	ND				Complying
37.	**10 MLD Manas Road, Kaithal bby PHED in Sep, 2012**										
		4115 dt. 16.02.18	10	24.8	7.2	9	ND				Complying
		4448 Dt. 11.04.18	12	39.2	7.88	14	ND				Complying
		4683 Dt. 28.05.18	18	87.2	7.75	9	ND				Complying
		4986 dt. 09.08.2018	13	56.8	7.36	24	ND				Complying
		5384 dt. 26.11.18	18	111.6	6.86	23	ND				Complying
38.	**7.5 MLD Kaithal by HUDA in 31.8.2016**										
		4112 dt. 16.02.18	10	33.6	8.09	28	ND				Complying
		4444 dt. 11.04.18	15	55	7.73	18	ND				Complying
		4982 dt. 09.08.2018	9	31.2	7.67	28	ND				Complying
		5379 dt. 26.11.18	19	66.4	7.22	24	ND				Complying

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
39.	**5 MLD STP Kalayat, Kaithal by PHED in 1.4.2014**										
		4113 dt. 16.02.18	8.5	33.6	7.5	13	ND				Complying
		4445 dt. 11.04.18	14	48	7.92	12	ND				Complying
		4685 dt. 28.05.18	14	60	7.49	20	ND				Complying
		4984 dt. 09.08.2018	14	64.8	7.13	19	ND				Complying
		5385 dt. 26.11.18	17	110.8	6.32	22	ND				Complying
40.	**3.5 Pundri Kaithal by PHED in 4.7.2014**										
		4116 dt. 16.02.18	11	36	8.2	11	ND				Complying
		4447 dt. 11.04.18	13	44.8	8.08	9	ND				Complying
		4686 dt. 28.05.18	15	60	7.73	6	ND				Complying
		4980 dt. 09.08.2018	11	41.2	7.38	24	ND				Complying
		5383 dt. 26.11.18	20	70.4	6.73	17	2				Complying
41.	**10 MLD STP Dhana Road, Bhiwani by PHED in 16.6.2013**										
		4336 dt. 22.03.18	23.5	106.4	7.78	35	2				Complying
		4805 Dt. 03.07.18	22	123.6	7.69	21	ND				Complying
		5096 dt. 05.10.18	20	91.6	7.64	12	ND				Complying
42.	**5 MLD STP Dhani Kushal, Bhiwani Road, Hansi, Hisar by PHED in 15.4.2014**										
		253 dt.08.01.18	10	36	7.9	20	ND				Complying
		304, dt. 30.03.18	56	112	7.2	140	ND				Non complying
		81, 29.06.18	12	56	7.7	20	ND				Complying
		201, 11.10.18	16	48	7.9	18	ND				**Complying**
43.	**7.5 MLD STP Lalpura- Jind Road, Hansi, Hisar by PHED in 15.4.2014**										
		252 dt. 08.01.18	8	24	7.9	16	ND				Complying
		303, 30.03.18	70	144	7.8	130	ND				Non complying
		82, 29.06.18	14	48	7.6	22	ND				Complying
		202, 11.10.18	14	64	8	16	ND				**Complying**
44.	**6 MLD STP Dhani Gram, Barwala, Hisar by PHED in 9.12.2014**										
		213 dt.08.01.18	12	24	7.8	18	ND				Complying
		286, 16.03.18	10	32	7.9	12	ND				Complying
		76, 29.06.18	12	40	7.7	22	ND				Complying
		178,	8	24	7.2	10	ND				**Complying**

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
		03.10.18									
45.	**15 MLD STP Azad Nagar, Rajgarh Road Hisar by PHED in 31.12.2014**										
		216 dt.08.01.18	6	16	7.4	10	ND				Complying
		278, dt. 06.03.18	8	32	7.6	10	ND				Complying
		68, 22.06.18	8	32	7.4	12	ND				Complying
		194, 03.10.18	8	24	7.9	12	ND				**Complying**
46.	**40 MLD STP Rishi Nagar, Hisar by PHED in 02.12.2017**										
		215 dt. 08.01.18	4	8	7.2	10	ND				Complying
		277 dt. 06.03.18	6	24	7.9	10	ND				Complying
		69, dt. 22.06.18	4	16	7.4	10	ND				Complying
		139, 14.09.18	8	24	7.7	10	ND				**Complying**
47.	**6.5 MLD STP Uklana, Hisar by PHED in 1.9.2017**										
		214 dt. 08.01.18	14	40	8	20	ND				Complying
		285, dt. 16.03.18	9	24	7.6	10	ND				Complying
		75, 29.06.18	12	32	7.5	20	ND				Complying
		192, 03.10.18	8	32	7.8	20	ND				**Complying**
48.	**15 MLD STP Dabara Tosham Road, Hisar by HUDA in 31.7.2014**										
		217 dt. 08.01.18	ND		7	10	ND				Complying
		285, dt. 16.03.18	9	24	7.6	10	ND				Complying
		67, 22.06.18	6	24	7.8	10	ND				Complying
		140, 14.09.18	6	16	7.5	10	ND				**Complying**
49.	**15 MLD STP, Shamsabad patti, Kalania Road, Sirsa by PHED in 1.7.2012**										
		198 dt. 08.01.18	6	16	7.6	12	ND				Complying
		290 dt. 16.03.18	8	32	8.2	12	ND				Complying
		45, dt. 05.06.18	14	48	7.7	18	ND				Complying
		181, 03.10.18	16	48	7.9	20	ND				**Complying**
50.	**5 MLD STP, Vill. Nattar 1, Sirsa by PHED in 1.5.2013**										
		196 dt. 08.01.18	6	24	7.6	10	ND				Complying
		288 dt. 16.03.18	14	32	8.3	12	ND				Complying
		44, dt. 05.06.18	18	56	7.9	22	ND				Complying
		179, 03.10.18	18	56	7.7	20	ND				**Complying**

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
51.	**5 MLD STP, Vill. Nattar 2, Sirsa by PHED in 14.09.17**										
		289 dt. 16.03.18	10	48	8	16	ND				Complying
		46, dt. 05.06.18	12	48	8	20	ND				Complying
		180, 03.10.18	14	40	8.2	18	ND				**Complying**
52.	**7.5 MLD STP Ellenabad Sirsa by PHED in 11.5.2015**										
		197 dt. 08.01.18	8	32	7	14	ND				Complying
		287 dt. 16.03.18	12	40	8.2	14	ND				Complying
		47, dt. 05.06.18	12	40	7.9	16	ND				Complying
		188,03.10.18	16	56	6.9	24	ND				**Complying**
53.	**9.5 MLD STP, Daddu Road, Kalanwali, Sirsa by PHED in 17.02.2018**										
		291 dt. 16.03.18	8	24	8.1	10	ND				Complying
		42 dt. 05.06.18	10	32	7.2	12	ND				Complying
		189, 03.10.18	8	24	7.2	10	ND				**Complying**
54.	**6 MLD STP Rania Sirsa by PHED in 30.6.2017**										
		Report No. & date	**BOD**	**COD**	**PH**	**TSS**	**Oil & Grease**				**Remarks**
		185, 03.10.18	6	24	7.2	10	ND				**Complying**
55.	**16.5 MLD STP Dabwali, Sirsa by PHED in 30.6.2017**										
		261, 262 dt. 24.01.18	6	24	7.2	10	ND				Complying
		43 dt. 05.06.18	8	24	7.6	10	ND				Complying
		203, 11.10.18	36	104	8.8	120	4				**Non complying**
56.	**10 MLD STP Vill. Bhodia Khera, Bhattu Road, Fatehabad by PHED in 1.4.2013**										
		297 dt. 30.03.18	12	40	7.9	16	ND				Complying
		64, 20.06.18	18	40	7.2	22	ND				Complying
		167, 21.09.18	12	40	8	18	ND				**Complying**
57.	**10 MLD STP Vill.Amani, Tohana, Distt. Fatehabad by PHED in 1.4.2013**										
		248 dt 08.01.18	12	24	7.8	18	-				Complying
		295 dt. 30.03.18	12	40	7.9	14	ND				Complying
		66, 20.06.18	56	128	7.2	120	6				Non complying
		135, 14.08.2018	16	48	7.6	18	ND				**Complying**
		165,	14	40	7.9	18	ND				**Complying**

Sr. No.		Report No. & date	BOD	COD	PH	TSS	Oil & Grease	Coliform	F. Coliform	Ammonical N.	Remarks
		21.09.18									
58.	**6.5 MLD STP Ratia, Fatehabad by PHED in 1.9.2014**										
		247 dt. 08.01.18	12	32	7.6	16	ND				Complying
		296 dt. 30.03.18	14	48	8.2	18	ND				Complying
		63, 20.06.18	16	48	7.6	20	ND				Complying
		166, 21.09.18	10	24	8.2	12	ND				**Complying**
59.	**10 MLD STP Majra, Fatehabad by HUDA**										
		65, 20.06.18	5	16	7.6	10	ND				Complying
		168, 21.09.18	6	16	8	10	ND				**Complying**

Annexure-10

List of industries requiring Online Monitoring Devices for effluent

Sr. No.	Industry name	OMD installed or date by which it will be installed
1	Paramount Paper Mills, Plot No. 316, I-A, Ph-I, Panchkula	Installed.
2	Sislax Pharma Pvt. Ltd., 237 Inds-Area, Ph-II, Panchkula.	Installed.
3	Syschem India Pvt Ltd., Vill. Bargodam, Panchkula.	Installed.
4	Parabolic Drugs Ltd., 45, Inds-Area, Ph-II, Panchkula.	Not installed (Dismantled)
5	Viking Tanners Inc., Plot No 23, IDC, Near Motor Market, Ambala City.	Installed.

Annexure-11

List of E-Waste Facilities and Inspection details

Sr. no.	Name of E-waste units dismantler/Recycler	Latest inspection report	Compliance status	Action Taken thereof
1.	3 R RECYCLER,Plot No. 266, Sector - 8, IMT Manesar, Gurgaon	21-05-2018	Complying	-
2.	Deshwal Waste Management Pvt Ltd Plot No. 292, Sector-7, IMT Manesar, Gurgaon	09-08-2018	Complying	-
3.	EARTH SENSE RECYCLE PVT LTD Plot No. 100, Sector - 5, IMT Manesar, Gurgaon	18-02-2016	Complying	-
4.	Green Vortex Waste Management Pvt Ltd., # 331, Udyog Vihar, Phase-I, sector-37, Gurugram	24-04-2018	Complying	-
5.	SMS ENTERPRISES, Plot No. 544- D, First Floor, Sector -37, Pace City - II, Gurgaon (Haryana)	21-09-2016	Complying	-
6.	Ingram Micro India Pvt. Ltd., Plot-527, Pace City-II, Industrial Area, Sector-37, Gurugram	09-09-2016	Complying	-
7.	Dlila Systems, 1st Floor, Plot No-61, Sector-8, IMT manesar, Gurugram	03-10-2018	Complying	-
8.	3 R Recycler, Plot No-392, Sector-8, IMT Manesar, Gurugram	14-06-2018	Complying	-
9.	Nirwana Recyling Pvt. Ltd., D-6, Udyog Vihar Phase-6, HSIIDC, Gurugram	29-05-2017	Complying	-
10.	Apicem Recyclers Pvt. Ltd., Plot No-359, Sector-8, IMT Manesar, Gurugram	18-01-2019	Complying	-
11.	Exigo recycling (P) Ltd. GT Road Samalkha Panipat	12.08.2018	Complying	-
12.	Thapar Disposal Industries, 902, A/5/6, Charra mandi road Ambala City	23.05.2016	Complying	-
13.	Mittal battery Plot no. 349, Industrial Area Phase –I Panchkula	28.09.2017	Complying	-
14.	M/s Tes Amm (India) Pvt. Ltd., Village Wazidpur Saboli, Distt. Sonipat	18.02.2017	Complying	--

Sr. no.	Name of E-waste units dismantler/Recycler	Latest inspection report	Compliance status	Action Taken thereof
15.	M/s Satellite Vision India, Plot No. 130, HSIIDC, Rai, Distt. Sonipat	25.04.2018	Complying	--
16.	M/s Giriraj metal Plot no. 39 HSIIDC Kutana Rohtak	07.10.2015	Complying	--
17.	M/s Earth Waste Management Pvt. Ltd. Sampla Beri Road Rohtak	18.05.2015	Complying	--
18.	M/s R. K Enterprises Village Lohari Jhajjar	Unit lying temporary closed of its own		
19.	M/s Green World International Pvt. Ltd. Ganpati Dham Bahadurgarh	Unit lying temporary closed of its own		
20.	M/s Namo E-waste management ltd. Main Mathura Road Faridabad	14.07.2017	Complying	--
21.	M/s Endeavor Reprocessor and Recyclers India, Plot no. 323, Sec-24, industrial Area, Faridabad	26-03-2018	Complying	--
22.	M/s A to Z E-waste Solutions, Plot no. 66, Pargiti Vihar, Industrial Area, sector-59, Ballabgarh	16-05-2018	Complying	--
23.	M/s E-waste Solutions, Industrial Shed, 1A,Industrial Estate, Sec-6, Faridabad	25-09-2017	Complying	--

Annexure-12

List of CBWTFs and inspection detail

Sr. No.	Name of the CBWTF	Date of Inspection	Compliance Status	Action to be taken
1	M/s HAAT Supreme Waste Tech Ltd., Vill. Bazida Kalan, Distt. Karnal	15.12.2018	Complying	NA
2	M/s Synergy Waste Management (P) Ltd., Plot No. 168, Sector-27-28, Hisar	26.12.2018	Complying	NA
3	M/s Biotic Waste Limited, Formerly known as Biotic Waste (P) Ltd. & Vulcan Waste Management (P) Ltd, P. No. 725, Pace City-2, Sector-37, Industrial Area, Gurgaon	27.12.2018	Complying	NA
4	M/s S.D. Bio Medical Waste Management, Vill. Baland, Rohtak	29.12.2018	Complying	NA
5	M/s ESS KAY Hygienic Services, Vill. Bagwala, Distt. Panchkula	27.6.2018	Complying	NA
6	M/s Divya Waste Management Co., Vill. Kandela, Distt. Jind	3.10.2018	Complying	NA
7	M/s Rudraksh Envirocare, Vill. Bhadog, Distt. Ambala	28.09.2018	Complying	NA

8	M/s Golden Eagle Waste Management Co., Vill. & PO Jasana, Opp. Aravali College, Faridabad	04.01.2019	Complying	NA
9	M/s Maruti Bio Medical Waste Plant, Vill. & PO Hetampura, Distt. Bhiwani	21.11.2018	Non Complying	Show cause notice issued for non compliance on 28.12.2018. Unit removed deficiencies and submitted reply.
10	M/s Surya Waste Management Co., Sahuwala Road, Vill. Chandiwal, Tehsil & Distt. Sirsa	28.12.2018	Complying	NA
11	M/s Invision Enviro Services, VPO Phulkan, Sirsa	20.12.2018	Complying	NA