

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPAL BENCH,
NEW DELHI**

Original Application No.1229 of 2024

In Re: "News Item titled "Over 1200 sources polluting water bodies in Punjab reveals govt. report" appearing in the Tribune dated 16.09.2024.

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Date: 6/7/26

Place: Barnala

Surinderjeet Singh
(Surinderjeet Singh)
Environmental Engineer
Punjab Pollution Control Board
Regional Office, Barnala.
(On behalf of respondent no. 01)



**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPAL BENCH
NEW DELHI**

Original Application No.1229 of 2024

In Re: News Item titled "Over 1200 sources polluting water bodies in Punjab reveals govt. report appearing in the Tribune dated 16.09.2024.

Status report by way of affidavit of Surinderjeet Singh, Environmental Engineer, Punjab Pollution Control Board, Regional Office, Barnala on behalf of respondent no.1 Punjab Pollution Control Board in compliance to order dated 18.03.2026.

I, the above-named deponent, do hereby solemnly affirm and state as under:

Respectfully sheweth:

- 1) That the above-mentioned Original Application was registered by the Hon'ble National Green Tribunal in exercise of its suo moto powers on the basis of News Item titled Over 1200 sources polluting water bodies in Punjab reveals govt. report appearing in the Tribune dated 16.09.2024. The respondent Punjab Pollution Control Board is filing replies / status reports in the case on the directions of this Hon'ble Tribunal from time to time. The case is pending before this Hon'ble Tribunal for adjudication.
- 2) That the Board has earlier filed status report dated 17.03.2026 disclosing that there are 1574 identified pollution sources and out of these 738 pollution sources have been plugged and 836 pollution sources are still in existence. Considering the status report filed by the Board, this Hon'ble Tribunal was pleased to pass an order dated 18.03.2026 thereby directing the concerned



respondent to clarify as to how the liquid waste will be treated in the ponds. It was also mentioned in the order dated 18.03.2026 that the State authorities are required to take action for stopping the discharge of untreated liquid and solid waste in the water bodies including storm water drains by having a proper plan for management of the said waste but that has not been disclosed in the report.

That in the above background of the case, the Punjab Pollution Control Board was granted time to file a fresh report vide order dated 18.03.2026. The present status report is being filed by the deponent on behalf of respondent Punjab Pollution Control Board in compliance to order dated 18.03.2026. The report may kindly be read in the following paragraphs.

- 4) That the Punjab Pollution Control Board being the party respondent no. 01 is filing the status reports in the case from time to time in accordance with the directions of this Hon'ble Tribunal. Considering the status report dated 17.03.2026 filed by the Punjab Pollution Control Board and also considering the nature of the issue involved in the matter, this Hon'ble Tribunal was pleased to pass an order dated 18.03.2026 thereby impleading the Principal Secretary, Environment, State of Punjab as respondent no. 04 and the Principal Secretary, Rural Development, State of Punjab as respondent no. 05 in the case.
- 5) That in compliance to order dated 18.03.2026, the Punjab Pollution Control Board has written letter no.8312-13 dated 30.04.2026 to the Secretary to Government of Punjab, Department of Science, Technology and Environment and the Principal Secretary to Government of Punjab, Department of Rural Development and Panchayats apprising about the orders dated 18.03.2026 passed by this Hon'ble Tribunal and a copy of the letter was endorsed to all the Environmental Engineers of Regional Offices of the Board for sending the report in accordance with the mandate of the order dated 18.03.2026 passed by this Hon'ble Tribunal. A copy of letter no. 8312-13 endorsement no. 8314, 8315-16 dated 30.04.2026 is enclosed as **Annexure R-1/A**.
- 6) That the information furnished by the Regional Offices of the Board has been complied and it is observed that 774 number of pollution sources contributing

towards pollution of water bodies have been closed, out of which 39 are industrial sources, 14 are individual sources, 137 sources are related to Urban Local Body outlets, 227 are dairy waste sources and 308 are sources of village waste water. The Regional Offices of the Board have also given information about the manner in which the treated waste water is being disposed of after the plugging of the sources of pollution into water bodies. The compiled information would reveal that some sources of pollution have been permanently closed, some sources have been shown as repeated entries, some sources have been closed for using the treated effluent onto land for plantation/irrigation purpose, some sources have been plugged and the treated effluent is being discharged into the drains. The compiled information in respect of closure of industrial sources, individual sources, sources of Urban Local Body outlets, sources of dairy waste, sources of village waste water and the manner in which the treated wastewater of the sources which have been plugged is utilized is given in **Annexure R-1/B**.

- 7) That the detailed information with regard to the closure of industrial sources, individual sources, sources of Urban Local Body outlets, sources of dairy waste, sources of village waste water and the manner in which the treated wastewater of the sources which have been plugged is utilized has also been prepared district wise and the same is enclosed herewith as under:



- i. District wise information of closed water pollution sources relating to industrial wastewater is enclosed as **Annexure R-1/C**.
- ii. District wise information of closed water pollution sources relating to village wastewater is enclosed as **Annexure R-1/D**.
- iii. District wise information of closed water pollution sources relating to Urban Local Bodies is enclosed as **Annexure R-1/E**.
- iv. District wise information of closed water pollution sources relating to dairy wastewater is enclosed as **Annexure R-1/F**.
- v. District wise information of closed water pollution sources relating to individuals is enclosed as **Annexure R-1/G**.

vi. District wise information of closed water pollution sources relating to any other source (non-existence sources) is enclosed as **Annexure R-1/H**.

- 8) That the case has been further examined by the Board and it is observed that the case in its larger aspect relates to the pollution of water bodies in the State of Punjab. In this regard, it is submitted that earlier there were 05 polluted river stretches in the State of Punjab as per the Central Pollution Control Board report 2022. 03 river stretches i.e. Sirsa, Swan and Kali Bein have been removed from the list of polluted river stretches of Punjab by the Central Pollution Control Board in 2025 report. As per the latest report of the Central Pollution Control Board (September 2025) there are only 02 Priority – 1 polluted river stretches in Punjab namely Ghaggar (Mubarkpur to Sardulgarh) and Satluj (Ludhiana to Harike). As per the directions of the Ministry of Jal Shakti, Government of India issued vide DO Letter dated 07.03.2025 regarding up-dation of action plans, the action plans of river Satluj and Ghaggar were prepared by the Directorate of Environment and Climate Change, Department of Science, Technology and Environment, Government of Punjab with the inputs of the stakeholder departments and agencies.



9) That the updated action plans of river Satluj and Ghaggar were approved by the River Rejuvenation Committee (RRC) in its meeting held on 28.10.2025 which were further approved by the State Apex Committee (SAC) in its meeting held on 12.01.2026 under the Chairmanship of Chief Secretary, Punjab. The updated Action Plans of River Ghaggar and Sutlej have been submitted to the Project Director, National River Conservation Directorate, Department of Water Resources, Ministry of Jal Shakti, Government of India vide letter no. DECC/2026/1123 dated 21.01.2026 by the Government of Punjab, Department of Science, Technology and Environment, Directorate of Environment and Climate Change and to the Member Secretary, Central Pollution Control Board, New Delhi vide letter endorsement no. DECC/2026/1124-1126 dated 21.01.2026. A copy of letter no. DECC/2026/1123, endorsement no. DECC/2026/1124-1126 dated 21.01.2026 is enclosed as **Annexure R-1/I**.

- 10) That the sources of water pollution in river Ghaggar and Satluj have duly identified and the same were included in the updated action plans for removal. The brief facts in this regard (as incorporated in the updated Action Plans) are mentioned and described in the following paragraphs.

A. Sources of water pollution in river Ghaggar

I. Major Drains

- i. There are 13 major drains/ choes/ nallahs which are directly discharging into the river Ghaggar. There are 29 creeks which are discharging into 13 major drains. The 362.945 MLD waste water from 31 urban bodies is being directly/indirectly discharged into river Ghaggar. Further, 389 villages are also discharging 99.43 MLD waste water directly/indirectly in the river Ghaggar.
- ii. There are following major sources polluting the river Ghaggar:
 - a. Sewage/ sullage generated from Urban Areas
 - b. Sewage/ sullage generated from Rural Areas
 - c. Industrial sources

II. Sewage/ sullage generated from Urban Areas

- iii. There are 31 local bodies which are discharging their wastewater either directly or indirectly into river Ghaggar. 22 STPs of 248.69 MLD capacity have been installed and commissioned in 18 towns meeting their full requirements. 11 STPs of 75.8 MLD capacity have been installed in another 8 towns meeting their partial requirement.

III. Sewage/ sullage generated from Rural Areas

- iv. There are 389 villages, which are discharging 99.43 MLD waste water through various creeks and drains into Ghaggar. In order to install necessary treatment facilities to treat the wastewater of rural areas, 389 villages have been prioritized into following phases:
 Phase 1: 98 Villages having total discharge of 31.60 MLD
 Phase 2: 203 Villages having total discharge of 43.62 MLD



Phase 3: 87 Villages having total discharge of 24.20 MLD

IV. Industrial Sources

- v. Industrial units located at Dera Bassi and adjoining areas
 - a. There are 35 water polluting industries in the catchment area of river Ghaggar at Dera Bassi and adjoining areas. None of the industries is allowed to discharge the untreated / treated wastewater into the drains/ choes leading to river Ghaggar.
 - b. However, the screening plants of Dera Bassi area are partly discharging their wastewater into river Ghaggar, but, their wastewater neither contains any organic materials contributing BOD/ COD nor any chemicals. Therefore, the PPCB envisages to pursue the industries to devise a mechanism for 100% recirculation of the wastewater generated from the washing of river bed material.
- vi. Industrial units located in the catchment area of Patiala Nadi
 - a. There are 7 water polluting industries in District Patiala in the catchment area of river Ghaggar.
 - b. Since, all these industries are located near the bank of Patiala Nadi/ Jacob drain, as such, there is need to monitor all these industries in odd hours to rule out the possibility for discharge of wastewater into said drains during odd hours.



B. Sources of water pollution in River Satluj

I. Major Drains

- i. There are 30 major drains/ choes/ nallahs, which are directly discharging into the river Sutlej. Apart from this, there are 84 sub drains, which are meeting with above 30 major drains.

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II. Major Sources of Pollution

- ii. There are following major sources polluting the river Sutlej:
 - a) Sewage/ sullage generated from Urban Areas
 - b) Sewage/ sullage generated from Rural Areas
 - c) Industrial sources
 - d) Wastewater and Cowdung generated from Dairies
 - e) Other Sources

III. Sewage/ sullage generated from Urban Areas

- iii. There are 50 Urban Local Bodies (ULBs) falling in the catchment area of River Sutlej, which are discharging their wastewater directly or indirectly into river Sutlej. The total sewage generation in the catchment area of Sutlej River has been estimated as 1236 MLD with gap in sewage treatment as 33.32 MLD.
- iv. Out of 50 ULBs, 37 ULBs have installed treatment facilities (66 STPs of 1389.05 MLD capacity) whereas, no treatment facilities exist in the remaining 13 ULBs.
- v. Out of 37 ULBs, 2 ULBs namely Sri Musktsar Sahib & Moga have installed STPs meeting partial requirement for which 2 No. STPs of 35 MLD capacity (5 MLD for Muktsar Sahib & 30 MLD for Moga) are proposed to be installed.
- vi. As per the findings of report of Joint Group of Central & State Govt. Departments constituted by Department of Science, Technology & Environment, Govt. of Punjab vide no. STE-STEB010/534/2024-STE4-Part (1)/783 dated 13.11.2024, the average discharge near the confluence point of Buddha Nallah with river Sutlej has been measured as 615.75 MLD with peak discharge as 671 MLD. The average total discharge into river Sutlej from Ludhiana city including Buddha Nallah and direct discharge of treated sewage from STP Bhattian has been estimated as 690 MLD. The status of capacity utilization of STPs in Ludhiana city is as under:



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Description of STP	Installed Capacity (MLD)	Technology	Utilized Capacity (Feb 2025) (MLD)	Discharge into
Within Municipal Limits				
Jamalpur	225	SBR	166.46	Buddha Nallah
Bhattian	111	UASB	56.46	Sutlej
	50	SBR	19.46	Sutlej
Balloke	152	UASB	108.62	Buddha Nallah
	105	SBR	73.80	Buddha Nallah
	60	SBR	49.14	Buddha Nallah
Total	703 MLD		473.94 say 475 MLD	
Upstream Municipal Limits				
Macchiwara	4	SBR	2.54	Buddha Nallah
Sahnewal	7	SBR	4.62	Buddha Nallah
Overall Total	714 MLD		7.16 MLD	
Downstream Municipal Limits				
No township is discharging sewage into Buddha Nallah. Therefore, no STP is required.				



IV. Sewage/ sullage generated from Rural Areas

- vii. There are 336 villages, which are discharging their wastewater either directly or indirectly through various drains / nallahs/ creeks. Out of 336 villages, the work for rejuvenation of ponds was completed in 75 villages, ongoing in 18 villages and yet to start 243 villages.

V. Industrial Sources

- viii. There are 2759 water polluting industries falling in the catchment area of River Sutlej, which are discharging their trade effluent

either directly or indirectly into River Sutlej. Category and area wise details of these units are as under:

Sr. No.	Industrial sector	Number of industries					
		Ludhiana	Jalandhar	Phagwara	Hoshiarpur	Ropar	Moga
1.	Dyeing	251	1	1	0	0	0
2.	Pulp & Paper	1	0	0	0	1	0
3.	Thermal	0	0	0	0	1	0
4.	Chlor Alkali	0	0	0	0	1	0
5.	Cement	0	0	0	0	1	0
6.	Fertilizer	0	0	0	0	1	0
7.	Sugar Mills	0	0	1	1	0	0
8.	Electroplating / Surface treatment	1772	264	6	1	3	0
9.	Tannery	0	87	0	0	0	0
10.	Others (Washing of garments/ service station/ food processing/ milk plant etc.)	296	41	5	20	2	1
	TOTAL	2320	393	13	22	10	1
	Grand Total	2759					



- ix. 211 small & medium scale textile dying units located in the clusters at Focal Point, Tajpur Road & Bhadurke Road, Ludhiana are connected to 3 CETPs of 50 MLD, 40 MLD & 15 MLD respectively. The details of CETPs installed at Ludhiana city with respect to their capacity utilization, as reported in the report of Joint Group of Central & State Government Departments constituted by Government of Punjab vide order dated 13.11.2024 are as under:

Sr. No.	Description	No. of Member Units	Capacity (MLD)	Utilized Capacity (MLD)	Technology
1.	CETP Bhadurke Road	36	15	13	SBR
2.	CETP Tajpur Road	108	50	45	SBR
3.	CETP Focal Point	67	40	30	SBR

- x. Out of the 54 scattered units, 14 units either have been closed or closed their wet processes. Rest of the units have their captive ETPs. These units are being persuaded either to connect with CETPs, or to adopt ZLD treatment systems so as to stop effluent discharge into public sewers. Majority of the units have submitted their proposals for ZLD or shifting and are in process of compliance.



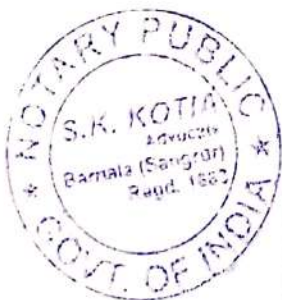
- xi. 62 Tannery Units operating in Leather Complex, Jalandhar are connected to CETP of 5 MLD capacity. Treated effluent from this CETP is discharged into Kala Sanghian Drain after mixing with STP treated water. Kala Sanghian Drain ultimately leads to River Sutlej through East Bein. 14 bag tanning units have been connected to CETP of 35 KLD capacity at Phillaur, the treated effluent from CETP Phillaur is being discharged into

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Municipal sewer leading to STP, Phillaur (South) of capacity 03 MLD based on MBBR technology. The treated sewage from STP, Phillaur (South) of capacity 03 MLD is discharged into river Sutlej during no demand period and is utilized for irrigation purposes during demand period, which ultimately discharged their treated wastewater into Sutlej River.

VI. Wastewater and Cowdung generated from Dairies

- xii. Around 1300 dairies located at Tajpur & Haibowal Dairy Complex at Ludhiana and Nahal & Jamsher Dairy Complex at Jalandhar including scattered dairies are generating around 900 TPD of cow dung. These dairies are source of cow dung & liquid waste. The dairies located at Ludhiana are discharging their wastewater into Buddha Nallah whereas the dairies located at Jalandhar are discharging their waste water into Kala Sanghian drain.
- xiii. As reported in the report of Joint Group of Central & State Govt. Departments, the cow dung generation from 851 dairies located within MC limits of Ludhiana has been estimated as 658.65 TPD with details as under:



Sr. No.	Description	No. of Dairies	No. of Animals	Cowdung Generation (TPD)
1.	Tajpur Dairy Complex	198	12170	182.55
2.	Haibowal Dairy Complex	466	26991	347.10
3.	Scattered	179	4973	75.00
4.	Gaushala	8	3573	54.00
	Total	851	47707	658.65

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- xiv. Around 70 dairies located upstream of Ludhiana city at Village-Bhukri Kalan, Bhukri Khurd, Bhamian Kalan & Khasi Kalan and other adjoining villages are directly disposing of their effluents into Buddha Nallah.
- xv. For the management of cow dung being generated from the dairies located at Haibowal Dairy complex, Ludhiana, 1 CBG plant of 200 TPD capacity is functional. Further for the treatments of liquid waste being generated from the dairy complexes of Tajpur & Haibowal, 2 ETPs of 2.25 MLD & 3.75 MLD capacity have been installed under Buddha Dariya Project. However, these ETPs are facing operational challenges due to the consistent influx of cow dung from dairies which is impacting their efficiency.
- xvi. The cow dung generation from 29 dairies located at Nahal dairy complex and 362 dairies at Jamsher Dairy Complex, Jalandhar has been estimated as 45 TPD & 200 TPD respectively. Further the liquid waste being generated from Jamsher Dairy Complex is being treated in ETP of 2.25 MLD capacity and the liquid waste being generated from Nahal Dairy Complex is discharged into Kala Sanghian Drain.



VII. Sources of Pollution into Buddha Nallah

- xvii. Buddha Nallah carries pollution caused by untreated industrial effluents and domestic sewage to river Sutlej. The Buddha Nallah can be broadly classified into three streams namely upstream (0-15 km), within MC limit (15-29 km) and downstream (29-47 km). As per the report of Joint Group of Central & State Govt. Departments, 156 outlets (domestic sewage, village ponds, dairies, storm water, CETPs, STPs) have been identified for discharging their waste water into Buddha Nallah. Out of 156 outlets, 96 outlets have been identified to be discharging their effluent upstream of Buddha Nallah, 3

outlets downstream of Buddha Nallah & 57 outlets within city limits. Out of 57 outlets, 42 outlets are from dairy complexes.

- 11) That the updated action plans for clean river Ghaggar and clean river Satluj are being implemented by the concerned departments of the Government of Punjab to make all the water bodies of the State of Punjab pollution free. Similarly, provisions for solid waste management have also been made in the said action plans for clean river Ghaggar and clean river Satluj. A copy of the updated Action Plan of River Ghaggar is placed at **Annexure R-1/J** and the copy of updated Action Plan of River Sutlej is placed at **Annexure R-1/K**.
- 12) That the deponent may kindly be allowed to place on record the present status report by way of affidavit on behalf of respondent no. 01 for kind consideration.

It is, therefore, prayed that the Original Application no. 1229 of 2024 may kindly be disposed of with appropriate orders in view of the submissions made in the status report herein above.



Date: 6/7/26

Place: SAS Nagar

VERIFICATION:

I, the deponent above named, do hereby verify and state that the contents of the above affidavit are true and correct to my knowledge as derived from the official record. No part of the above affidavit is false and nothing material has been concealed there from.

Deponent

Surinderjeet Singh
(Surinderjeet Singh)

Environmental Engineer

Punjab Pollution Control Board

Regional Office, Barnala.

(On behalf of respondent no. 01)

The Contents of this affidavit/document has been read over to the deponent/executioner. She has accepted it true and Correct.

The Contents of this affidavit/document has been read over to the deponent/executioner. She has accepted it true and Correct.

Deponent

Surinderjeet Singh
(Surinderjeet Singh)

Environmental Engineer

Punjab Pollution Control Board

Regional Office, Barnala.

(On behalf of respondent no. 01)

Date: 6/7/26

Place: SAS Nagar

This Document/Affidavit is Entered at
Sr. No. 127 Page No. 89

Date: 6 JUL 2026

ATTESTED

-13-

NOTARY PUBLIC
BARNALA (PB) INDIA

6 JUL 2026



347 ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਕੰਟਰੋਲ ਬੋਰਡ

PUNJAB POLLUTION CONTROL BOARD

No. 83.12-13

Dated. 30/4/26

To

- 1) The Secretary to Government of Punjab,
Department of Science, Technology and Environment,
Chandigarh.
- 2) The Principal Secretary to Government of Punjab,
Department of Rural Development & Panchayats,
Chandigarh.

Subject: Order dated 18.03.2026 passed by the Hon'ble National Green Tribunal in Original Application no. 1229 of 2024 -compliance thereof.

Please refer to the subject cited above.

- 2) The Hon'ble National Green Tribunal in exercise of Suo Moto powers has taken cognizance of a news item titled – about 1200 sources polluting water bodies in Punjab reveals Govt. report” appearing in the Tribunal dated 16.09.2024 and registered the same as O.A. No. 1229 of 2024.
- 3) The news item relates to a government report that identifies over 1200 sources of pollution effecting the water bodies in the Punjab. It is asserted that pollution is not just an environmental issue it poses significant risk to public health, affecting drinking water supplies and increasing the risk of water borne diseases.
- 4) The Punjab Pollution Control Board after gathering information from the concerned departments has filed interim report on 12.05.2025 and status report on 17.03.2026 before the Hon'ble National Green Tribunal. The summarized status is tabulated below:

S. No.	Description of information of pollution sources	Industrial	Village Waste Water	Urban Local Body outlets	Dairy Waste	Individual	Any Other	Total
1	Total number of polluting sources	39	996	231	243	14	51	1574
2	Number of pollution	39	272	128	236	14	49	738

ਵਾਤਾਵਰਣ ਭਵਨ, ਨਾਭਾ ਰੋਡ, ਪਟਿਆਲਾ-147001

Vatavaran Bhawan, Nabha Road, Patiala -147001

Phone : Chairman. : 0175-2215793, Member Secretary : 0175-2215802 (O)

Website : www.ppcb.gov.in | E-Mail : chairmanppcb@yahoo.in | msppcb@gmail.com |





	sources closed							
3	Number of pollution sources in operation.	00	724	103	07	00	02	836

5) After consideration of the matter, it is observed by the Hon'ble National Green Tribunal that the perusal of Annexure-A and B shows that most of the affected water bodies are mostly storm water drains and if sources of their pollution have been plugged then in what manner the sewage, industrial effluent or other liquid waste which was being discharged through those sources, is being treated or utilized. This has not been disclosed in the report.

The last column of annexure-B mentions that there is a proposal to construct the ponds for discharge of liquid waste. The concerned respondent is required to clarify as to how liquid waste will be treated in those ponds. The State authorities are required to take action for stopping the discharge of untreated liquid and solid waste in the water bodies including storm water drains by having a proper plan for management of the said waste but that has not been disclosed in this report.

6) Considering the nature of issue involved in the matter, the Hon'ble National Green Tribunal has passed an order dated 18.03.2026 thereby impleading the Principal Secretary, Environment, State of Punjab as respondent no.4 and Principal Secretary, Rural Development, State of Punjab as Respondent no.5 in the case with direction to look into the matter file their response. The Punjab Pollution Control Board has also been directed to file a fresh report.

7) It is, therefore, requested that the instructions may please be issued to the concerned officers to make compliance of the orders dated 18.03.2026 of the Hon'ble National Green Tribunal passed in Original Application no. 1229 of 2024. A copy of order dated 18.03.2026 is enclosed for kind perusal.


Member Secretary
o/c



Endst. No. 8314

Dated 30/4/26

A copy of the above is forwarded to all the Environmental Engineer of Regional Offices of the Board for information and necessary action and for sending the requisite report in accordance with the mandate of order dated 18.03.2026 passed by the Hon'ble National Green Tribunal in O.A. No. 1229 of 2024 to the Environmental Engineer, Punjab Pollution Control Board, Regional Office, Barnala within one week.

Member Secretary

o/c

Endst. No. 8315-16

Dated 30/4/26

A copy of the above alongwith copy of order dated 18.03.2026 passed by the Hon'ble National Green Tribunal in Original Application No. 1229 of 2024 is forwarded to the following for information and ensuring timely action.

- 1) All the Chief Environmental Engineers, Punjab Pollution Control Board,
- 2) All the Senior Environmental Engineers, Punjab Pollution Control Board.

Member Secretary

o/c

E-office-255620

List of various sources of pollution which have been plugged and the manner in which the treated waste water is utilized

A. Closure of industrial sources and the manner of utilization of treated effluent.

Total number of industrial sources which have been closed: 39

Sr. No.	Manner in which treated wastewater is disposed/utilized after closure of the source	No. of Industries
i.	Number of industries which have been closed	31
ii.	Treated effluent that is discharged onto land for plantation	6
iii	Industries waste that has been removed	1
iv	Treated effluent that is discharged into drain	1
Total		39

B. Closure of polluting sources of village waste water and the manner of utilization of treated effluent.

Total number of polluting sources of village waste water which have been closed: 308

Sr. No.	Manner in which treated wastewater is disposed/utilized	No. of polluting sources
1	No. of village wastewater polluting sources which have been permanently closed	26
2	Repeated Entry of identical polluting sources	42
3	Treated effluent after STP/ village oxidation pond that is disposed onto land for irrigation purposes	38
4	Treated effluent after Thapar Model/Seechewal Model discharged into land for irrigation	77
5	Treated effluent after Thapar Model discharged into Drain	33
6	Treated effluent after STP discharged into Drain	37

7	Treated effluent after Waste stabilization Pond discharged into Drain	29
8	Treated effluent discharged into oxidation pond/ Village Pond	24
9	The location where no outlet/polluting source found	1
10	Domestic effluent of Residential House treated through Septic Tank	1
	Total	308

C. Closure of Urban Local Body (ULB) outlets and the manner of utilization of treated effluent.

Total number of Urban Local Body outlets which have been closed: 137

Sr. No.	Manner in which treated wastewater is disposed/utilized	Number of ULB outlets
1	Treated effluent after Sewage Treatment Plant that is discharged into drain	121
2	Treated effluent after Sewage Treatment Plant that is disposed onto land for plantation/horticulture	4
3	Treated effluent after Sewage Treatment Plant that is disposed onto land for irrigation purposes	10
4	Treated effluent after Thapar Model that is discharged into drain	1
5	The location/RD where no polluting wastewater source was found	1
	Total	137

D. Closure of dairy outlets and the manner of utilization of treated effluent.

Total number of dairy outlets which have been closed: 227

Sr. No.	Manner in which treated wastewater is disposed/utilized	Number of dairies
1	Number of Dairy wastewater polluting sources which have been permanently closed	187
2	Repeated Entry of identical polluting sources	26

3	Number of Dairy waste water polluting sources where Treated effluent after Thapar Model/Seechewal Model discharged onto land for irrigation	14
	Total	227

E. Closure of individual outlets and the manner of utilization of treated effluent.

Total number of individual outlets which have been closed: 14

Sr. No.	Manner in which treated wastewater is disposed/utilized	Number of individual polluting sources
1	Number of individual wastewater polluting sources which are being discharged into sewerage system	7
2	Treated effluent after STP that is discharged into drain	6
3	No. of individual wastewater polluting sources which have been permanently closed	1
	Total	14

F. Non-existence sources of pollution

49 sources of pollution mentioned under the head "Any Other" were found to be non-existence.

District wise information of closed water pollution sources relating to Industrial wastewater

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
1	Amritsar	Industrial	Gumtala Drain	7070	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
2	Amritsar	Industrial	Gumtala Drain	5433-6623	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
3	Amritsar	Industrial	Gumtala Drain	17120	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
4	Amritsar	Industrial	Gumtala Drain	18360	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
5	Amritsar	Industrial	Gumtala Drain	18405	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
6	Amritsar	Industrial	Gumtala Drain	18660	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
7	Amritsar	Industrial	Naag drain	500	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
8	Amritsar	Industrial	Naag drain	1500	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
9	Amritsar	Industrial	Naag drain	3500	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
10	Amritsar	Industrial	Naag drain	8000	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
11	Amritsar	Industrial	Naag drain	10000	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
12	Amritsar	Industrial	Naag drain	11000	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
13	Amritsar	Industrial	Naag drain	13000	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
14	Amritsar	Industrial	Naag drain	13500	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
15	Amritsar	Industrial	Naag drain	14000	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
16	Amritsar	Industrial	Naag drain	18925	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
17	Amritsar	Industrial	Naag drain	20295	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
18	Amritsar	Industrial	Naag drain	—	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
19	Amritsar	Industrial	Tung Dhab Drain	25368	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
20	Amritsar	Industrial	Tung Dhab Drain	39412	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
21	Amritsar	Industrial	Tung Dhab Drain	39785	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
22	Amritsar	Industrial	Tung Dhab Drain	43180	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
23	Amritsar	Industrial	Tung Dhab Drain	43350	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
24	Amritsar	Industrial	Tung Dhab Drain	23358	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
25	Amritsar	Industrial	Verka Drain	8292	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
26	Amritsar	Industrial	Verka Drain	8442	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
27	Amritsar	Industrial	Verka Drain	8895	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
28	Amritsar	Industrial	Verka Drain	8902	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
29	Amritsar	Industrial	Verka Drain	9730	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
30	Amritsar	Industrial	Verka Drain	10180	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
31	Amritsar	Industrial	Verka Drain	11080	NA	Yes	The industry has been closed	Closed	NA	The industry has been closed
32	Mansa	Industrial dye factory	sirhind choe	—	Latitude 29.866006; Longitude 75.424458	Yes	The industry installed effluent treatment plant for the treatment of effluent generated from the process.	The treated effluent is being discharged onto land for plantation.	--	
33	Ludhiana	Industrial	Buddha Dariya	—	ਹਰੀ ਸਿੰਘ ਪੋਠਾ ਫੈਕਟਰੀ, ਪਿੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Permanently closed. Connected with STP 225 MLD Jamalpur.	do	NA	do
34	Malerkotla	Waste water discharge by Vallabh Metals Amargarh	Bhagwanpura Link Drain	Lat.= 30.460698 Longt.= 76.030217	84500	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
35	SAS Nagar	(Industrial) Vigro Laminates pvt ltd.	Jhirmal Nadi	—	Only Stormwater outlet present at location with no discharge during visit. (30.578064, 76.887376)	Yes	The industry has provided evaporator for the treatment of trade effluent generated from the process. The industry has provided septic tank for the treatment of domestic effluent and same is used for plantation purpose.	The industry has provided evaporator for the treatment of trade effluent generated from the process. The industry has provided septic tank for the treatment of domestic effluent and same is used for plantation purpose.	Pollution sources have been removed	The industry has provided evaporator for the treatment of trade effluent generated from the process. The industry has provided septic tank for the treatment of domestic effluent and same is used for plantation purpose. No treated/ untreated domestic/ trade effluent is discharged into drain. The outlet provided in the drain is only used for the discharged of stormwater during rains.
36	SAS Nagar	(Industrial) Venetration Technology pvt ltd.	Jhirmal Nadi	—		Yes	The outlet of the industry namely Venetration Technology Pvt. Ltd. has been eliminated and the wastewater is being treated by the industry within its premies	Onto plantation by respective indsutries	Pollution sources have been removed	—
37	SAS Nagar	(Industrial) Pipe containing contaminated water outlet point	Jhirmal Nadi	—	The source has been removed at location (30.580081,76.890495)	Yes	There was industrial outlet, which was diverted to plantation to said industry. No discharge is being done into drain at site.	There was industrial outlet, which was diverted to plantation to said industry. No discharge is being done into drain at site.	Pollution sources have been removed	There was industrial outlet, which was diverted to plantation to said industry. No discharge is being done into drain at site.
38	SAS Nagar	(Industrial) Indutsrial waste found near Jhirmal Nadi Bank	Jhirmal Nadi	—	The source has been removed and no waste at banks at location (30.581942,76.891476)	Yes	The industrial waste found at the site has now been removed. No outlet for the discharge of effluent/ storm water was present at site.	The industrial waste found at the site has now been removed. No outlet for the discharge of effluent/ storm water was present at site.	Pollution sources have been removed	The industrial waste found at the site has now been removed. No outlet for the discharge of effluent/ storm water was present at site.
39	Barnala	Industrial	Dhanaula drain	28000		Yes	The pollution point source has been plugged now the trade effluent of the industry namely M/s Trident limited is disposed onto land for plantation inside the premises after treatment through ETP of capacity @ 25000 KLD and the Domestic effluent is also disposed off onto land for plantation after treatment thorough STP of capacity @ 500 KLD.	Waste water after treatment through ETP & STP is being discharged onto land for plantation inside the premises.	Pollution sources have been removed	—

District wise information of Closed water pollution sources relating to Village WasteWater

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
1	Amritsar	Village Water	ATTARI DRAIN	22500	NA	Yes	Closed	Closed	-	-
2	Amritsar	Village Water	ATTARI DRAIN	3000	NA	Yes	Repeated Entry	Repeated Entry	-	-
3	Amritsar	Village Water	ATTARI DRAIN	22500	NA	Yes	Repeated Entry	Repeated Entry	-	-
4	Amritsar	Village Water	ATTARI DRAIN RD 0-27500	3000	NA	Yes	Repeated Entry	Repeated Entry	-	-
5	Amritsar	Village Water	ATTARI DRAIN RD 0-27500	22500	NA	Yes	Repeated Entry	Repeated Entry	-	-
6	Amritsar	Village Water	BEGA LASHARI DRAIN	96000+	NA	Yes	Closed	Closed	NA	-
7	Amritsar	Village Water	BEGA LASHARI DRAIN	5000	31.770494,74.675430	Yes	Repeated Entry	Repeated Entry	NA	-
8	Amritsar	Village Water	BEGA LASHARI DRAIN	96000+	NA	Yes	Repeated Entry	Repeated Entry	NA	-
9	Amritsar	Village Water	BEGA LASHA RI DRAIN RD 0-106760	94000+	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
10	Amritsar	Village Water	BEGA LASHA RI DRAIN RD 0-106760	96000+	NA	Yes	Repeated Entry	Repeated Entry	NA	-
11	Amritsar	Village Water	BEGA LASHA RI DRAIN RD 0-106760	98000+	31.789743,74.915512	Yes	Repeated Entry	Repeated Entry	NA	-
12	Amritsar	Village Water	CHOGAWAN DRAIN	36000	31.697652, 74.661504	Yes	Repeated Entry	Repeated Entry	NA	-
13	Amritsar	Village Water	CHOGAWAN DRAIN	75000	31.639104,74.581513	Yes	Repeated Entry	Repeated Entry	NA	-
14	Amritsar	Village Water	city out fall	RD 14500 to 15000	NA	Yes	Closed	Closed	-	-
15	Amritsar	Village Water	city out fall	RD 48000	NA	Yes	Treated water of STP	Treated wastewater is disposed Into drain	NA	-
16	Amritsar	Village Water	city out fall	RD 11000 to 11500	NA	Yes	Repeated Entry	Repeated Entry	-	-
17	Amritsar	Village Water	city out fall	RD 48000	NA	Yes	Repeated Entry	Repeated Entry	NA	-
18	Amritsar	Village Water	city out fall	RD 48000	NA	Yes	Repeated Entry	Repeated Entry	NA	-
19	Amritsar	Village Water	Gandiwind drain	RD 24000 to 30000	31.5229, 74.6900	Yes	Repeated Entry	Repeated Entry	NA	-
20	Amritsar	Village Water	Gumtala Drain	9145-9205	NA	Yes	Connected with MC Sewer leading to STP	Treated wastewater is disposed Into drain	NA	-
21	Amritsar	Village Water	Gumtala Drain	1320	NA	Yes	Closed	Closed	NA	-
22	Amritsar	Village Water	Gumtala Drain	4205	NA	Yes	Closed	Closed	NA	-
23	Amritsar	Village Water	Gumtala Drain	4215	NA	Yes	Closed	Closed	NA	-
24	Amritsar	Village Water	Hudiara Nallah	24000	NA	Yes	Repeated Entry	Repeated Entry	-	-
25	Amritsar	Village Water	Hudiara Nallah	24000	31.541798,74.638275	Yes	Repeated Entry	Repeated Entry	-	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	356 If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
26	Amritsar	Village Water	Hudiara Nallah	77000	31.6306459,74.6931558	Yes	Repeated Entry	Repeated Entry	-	-
27	Amritsar	Village Water	Hudiara Nallah	87300	31.6549793,74.7139678	Yes	Repeated Entry	Repeated Entry	-	-
28	Amritsar	Village Water	Hudiara Nallah	24000	31.541798,74.638275	Yes	Repeated Entry	Repeated Entry	-	-
29	Amritsar	Village Water	Hudiara Nallah	77000	31.6306459,74.6931558	Yes	Repeated Entry	Repeated Entry	-	-
30	Amritsar	Village Water	Hudiara Nallah	87300	31.6549793,74.7139678	Yes	Repeated Entry	Repeated Entry	-	-
31	Amritsar	Village Water	Kasur Nallah	Rd 255000 to Rd 275000	NA	Yes	Waste waste is discharge into Into pond	Unlined Pond with no outlet	NA	-
32	Amritsar	Village Water	Khehra drain	RD 18000 to 18500	NA	Yes	Repeated Entry	Repeated Entry	-	-
33	Amritsar	Village Water	Khehra drain	RD 18000 to 18500	NA	Yes	Repeated Entry	Repeated Entry	-	-
34	Amritsar	Village Water	KOHALI DRAIN RD 0-23000	23000	NA	Yes	Repeated Entry	Repeated Entry	-	-
35	Amritsar	Village Water	KOTLI AMB LINK	100	NA	Yes	Repeated Entry	Repeated Entry	-	-
36	Amritsar	Village Water	KOTLI AMB LINK	100	NA	Yes	Repeated Entry	Repeated Entry	-	-
37	Amritsar	Village Water	Naag drain	17825	NA	Yes	Closed	Closed	NA	-
38	Amritsar	Village Water	Othian Drain	Rd 0-5000	NA	Yes	Repeated Entry	Repeated Entry	-	-
39	Amritsar	Village Water	PADHIAR DRAIN	2000	NA	Yes	Repeated Entry	Repeated Entry	-	-
40	Amritsar	Village Water	PADHIAR DRAIN	21000	NA	Yes	Repeated Entry	Repeated Entry	-	-
41	Amritsar	Village Water	PADHIAR DRAIN	2000	NA	Yes	Repeated Entry	Repeated Entry	-	-
42	Amritsar	Village Water	PADHIAR DRAIN	21000	NA	Yes	Repeated Entry	Repeated Entry	-	-
43	Amritsar	Village Water	RAJASANSI DRAIN	5000	NA	Yes	Repeated Entry	Repeated Entry	-	-
44	Amritsar	Village Water	RAJASANSI DRAIN	30000+	NA	Yes	Repeated Entry	Repeated Entry	-	-
45	Amritsar	Village Water	RAJASANSI DRAIN	5000	NA	Yes	Repeated Entry	Repeated Entry	-	-
46	Amritsar	Village Water	RAJASANSI DRAIN	30000+	NA	Yes	Repeated Entry	Repeated Entry	-	-
47	Amritsar	Village Water	Ramdass link drain	RD-0- 8660	NA	Yes	Repeated Entry	Repeated Entry	-	-
48	Amritsar	Village Water	Ramdass link drain	RD-0- 8660	NA	Yes	Repeated Entry	Repeated Entry	-	-
49	Amritsar	Village Water	Ramdass link drain	4600+	NA	Yes	Repeated Entry	Repeated Entry	-	-
50	Amritsar	Village Water	RAMDASS LINK DRAIN RD 0-8660	4600+	NA	Yes	Repeated Entry	Repeated Entry	-	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	357 If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
51	Amritsar	Village Water	Sathiala Lakhowal drain	RD 12500	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
52	Amritsar	Village Water	Talwandi Bharat Drain	2500	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
53	Amritsar	Village Water	Talwandi Bharat Drain	8400	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
54	Amritsar	Village Water	Talwandi Bharat Drain	10000	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
55	Amritsar	Village Water	Talwandi Bharat Drain	15000	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
56	Amritsar	Village Water	Talwandi Bharat Drain	18100	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
57	Amritsar	Village Water	Talwandi Bharat Drain	21500	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
58	Amritsar	Village Water	Talwandi Bharat Drain	34900	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
59	Amritsar	Village Water	Talwandi Bharat Drain	35100	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
60	Amritsar	Village Water	Talwandi Bharat Drain	41000	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
61	Amritsar	Village Water	Talwandi Bharat Drain	41800	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
62	Amritsar	Village Water	Tung Dhab Drain	12544	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
63	Amritsar	Village Water	Tung Dhab Drain	15680	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
64	Amritsar	Village Water	Tung Dhab Drain	19765	NA	Yes	Closed	Closed	NA	-
65	Amritsar	Village Water	Tung Dhab Drain	27160	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
66	Amritsar	Village Water	Tung Dhab Drain	27180	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
67	Amritsar	Village Water	Tung Dhab Drain	27235	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
68	Amritsar	Village Water	Tung Dhab Drain	27270	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
69	Amritsar	Village Water	Tung Dhab Drain	27310	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
70	Amritsar	Village Water	Tung Dhab Drain	27350	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
71	Amritsar	Village Water	Tung Dhab Drain	27380	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
72	Amritsar	Village Water	Tung Dhab Drain	27390	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
73	Amritsar	Village Water	Tung Dhab Drain	27450	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
74	Amritsar	Village Water	Tung Dhab Drain	27460	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
75	Amritsar	Village Water	Tung Dhab Drain	29122	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
76	Amritsar	Village Water	Tung Dhab Drain	29182	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	358 If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
77	Amritsar	Village Water	Tung Dhab Drain	34091	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
78	Amritsar	Village Water	Tung Dhab Drain	15950	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
79	Amritsar	Village Water	Tung Dhab Drain	16600	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
80	Amritsar	Village Water	Tung Dhab Drain	17130	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
81	Amritsar	Village Water	Tung Dhab Drain	25483	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
82	Amritsar	Village Water	Tung Dhab Drain	25483	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
83	Amritsar	Village Water	Tung Dhab Drain	25483	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
84	Amritsar	Village Water	Tung Dhab Drain	25483	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
85	Amritsar	Village Water	Tung Dhab Drain	25483	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
86	Amritsar	Village Water	Tung Dhab Drain	25483	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
87	Amritsar	Village Water	Tung Dhab Drain	26483	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
88	Amritsar	Village Water	UMARPURA DRAIN	33000+	NA	Yes	Repeated Entry	Repeated Entry	-	-
89	Amritsar	Village Water	UMARPURA DRAIN RD 0-35000	33000+	NA	Yes	Repeated Entry	Repeated Entry	-	-
90	Amritsar	Village Water	VANIA KE LINK DRAIN RD 0-15000	14000+	NA	Yes	Into pond	Unlined Pond with no outlet	NA	-
91	Amritsar	Village Water	Verka Drain	14280	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
92	Amritsar	Village Water	Verka Drain	14390	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
93	Amritsar	Village Water	Verka Drain	14470	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
94	Amritsar	Village Water	Verka Drain	14500	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
95	Amritsar	Village Water	Verka Drain	14570	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
96	Amritsar	Village Water	Verka Drain	14815	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
97	Amritsar	Village Water	Verka Drain	17100	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
98	Amritsar	Village Water		5000	NA	Yes	Closed	Closed	NA	-
99	Amritsar	Village Water		41500	NA	Yes	Closed	Closed	NA	-
100	Amritsar	Village Water		41600	NA	Yes	Closed	Closed	NA	-
101	Amritsar	Village Water		36000	NA	Yes	Closed	Closed	NA	-
102	Amritsar	Village Water		40000	NA	Yes	Closed	Closed	NA	-
103	Amritsar	Village Water		57100	NA	Yes	Closed	Closed	NA	-
104	Amritsar	Village Water		75000	NA	Yes	Closed	Closed	NA	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
105	Bathinda	Gram Panchyat Pitho	Lower Lissara Drain	—	Latitude 30.241070; Longitude 75.296155	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
106	Bathinda	Gram Panchyat Badiala	Lower Lissara Drain	—	Latitude 30.240779; Longitude 75.296725	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
107	Bathinda	Gram Panchyat Mandi Kalan	Lower Lissara Drain	—	Latitude 30.215159; Longitude 75.251635	YES	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
108	Bathinda	Gram Panchyat Bhunder	Lower Lissara Drain	—	Latitude 30.20165; Longitude 75.221168	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
109	Bathinda	Gram Panchyat Balianwali	Lower Lissara Drain	—	Latitude 30.193808; Longitude 75.183415	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
110	Bathinda	Gram Panchyat Jethuke	Lower Lissara Drain	—	Latitude 30.278777; Longitude 75.312611	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
111	Bathinda	Gram Panchyat Kararwala	Lower Lissara Drain	—	Latitude 30.278407; Longitude 75.30435	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
112	Mansa	gram panchayat mandali	sirhind choe	—	Latitude 29.890109; Longitude 75.437568	Yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
113	Mansa	gram panchayat akanwali	sirhind choe	—	Latitude 29.866116; Longitude 75.430898	Yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
114	Mansa	gram panchayat Bhagwanpur Hingana	Ghaggar River	—	Latitude 29.686386; Longitude 75.332614	Yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
115	Mansa	gram panchayat Ahalupur	Ghaggar River	—	Latitude 29.670874; Longitude 75.314877	Yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
116	Mansa	Gram panchayat Bhalnwara	Ghaggar River	—	Latitude 29.685649; Longitude 75.302974	Yes	Screening Chamber have been installed and proposal for Thaper Modal has been put up	The treated effluent is used for irrigation purposes	--	-
117	Mansa	sewage waste of village Hodlan kalan	Sirhind Choe	—	Latitude 30.047604; Longitude 75.614386	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
118	Mansa	sewage waste of village borawal	Sirhind Choe	—	Latitude 29.997348; Longitude 75.546048	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
119	Mansa	sewage waste of village Diwane kothe	Bahadur Singh Wala	—	Latitude 30.078778; Longitude 75.566901	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-
120	Mansa	sewage waste of village Gurthari	Sahoke	—	Latitude 30.060572; Longitude 75.323718	yes	Thaper Model Treatement Plant has been installed	The treated effluent is used for irrigation purposes	--	-

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121	Mansa	sewage waste of village Khiwa Dialuwala	Sahoke	—	Latitude 30.081372; Longitude 75.324420	yes	Thapar model has been established and the water is being utilised for irrigation	Thapar model has been established and the water is being utilised for irrigation	--	-
122	Mansa	sewage waste of village Rajia	Sahoke	—	Latitude 30.074592; Longitude 75.324430	yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
123	Mansa	Sewage waste of Village Jalwera	Bareta Drain	—	Latitude 29.856489; Longitude 75.662067	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
124	Mansa	Sewage Waste of village Dharampura	Bareta Drain	—	Latitude 29.826197; Longitude 75.648270	Yes	Screening Chamber have been installed and proposal for Thaper Modal has been put up	The treated effluent is used for irrigation purposes	--	-
125	Mansa	Sewage Waste of village Bhakrial	Bareta Drain	—	Latitude 29.800649; Longitude 75.621285	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
126	Mansa	Sewage Waste of village Andianwali	Bareta Drain	—	Latitude 29.791673; Longitude 75.613237	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
127	Mansa	Sewage Waste of village Reond Kalan	Bareta Drain	—	Latitude 29.778950; Longitude 75.599876	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
128	Mansa	Sewage Waste of village Reond Khurd	Bareta Drain	—	Latitude 29.759877; Longitude 75.585150	yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
129	Mansa	Sewage Waste of village Juglan	Mander Link Drain	—	Latitude 29.826239; Longitude 75.697789	Yes	Screening Chamber have been installed and proposal for Thaper Modal has been put up	The treated effluent is used for irrigation purposes	--	-
130	Mansa	Sewage Waste of village Mander	Mander Link Drain	—	Latitude 29.824983; Longitude 75.684769	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
131	Mansa	Sewage Waste of village Kulrian	Mander Link Drain	—	Latitude 29.816867; Longitude 75.660483	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
132	Mansa	Sewage Waste of village Manghanian	Toderpur Link Drain	—	Latitude 29.806964; Longitude 75.577464	Yes	--	--	--	-
133	Mansa	Sewage Waste of village Gamiwala	Toderpur Link Drain	—	Latitude 29.801905; Longitude 75.527822	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
134	Mansa	Sewage Waste of village Chak Bhaik	Dodra link Drain	—	Latitude 29.946684; Longitude 75.578624	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
135	Mansa	Sewage Waste of village Gurne Khurd	Dodra Link Drain	—	Latitude 29.958746; Longitude 75.531615	Yes	Thaper Model Treatment Plant has been installed	The treated effluent is used for irrigation purposes	--	-
136	Gurdaspur	Village Water	Kasoor Nallah	—	31.873286, 75.282886	Yes	Unlined Pond Provided	Unlined Pond with no outlet	the pollution sources have been removed	-
137	Gurdaspur	Village Water	Kasoor Nallah	—	31.8595, 75.260668	Yes	Unlined Pond Provided	Unlined Pond with no outlet	the pollution sources have been removed	-

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138	Pathankot	Village Water	Jalallia Drain	—	32.30146, 75.399316	Yes	Unlined Pond Provided	Unlined Pond with no outlet	the pollution sources have been removed	-
139	Faridkot	Gram Panchayat Ghania	Deviwala link drain	13600	Photographs with geo-coordinates attached separatly	Yes	Treatment is done throught screening Chamber & stabilization pond , then treated water in Disposed in Drain	Drain	Point removed	-
140	Faridkot	Gram Panchayat Bhairon Bhatti	Hari nau link drain	0	Photographs with geo-coordinates attached separatly	Yes	Treatment is done throught screening Chamber & stabilization pond , then treated water in Disposed in Drain	Drain	31.07.2026 (Seechewal model to be adopted)	-
141	Faridkot	Gram Panchayat Killa Nau	Pucca Link Drain	12000	Photographs with geo-coordinates attached separatly	Yes	Treatment is done throught screening Chamber & stabilization pond , then treated water in Disposed in Drain	Drain	Seechewal Model adopted	-
142	Faridkot	Gram Panchayat Sadiq	Sadiq Drain	RD 29800	Photographs with geo-coordinates attached separatly	yes	Thapar Model	Drain	Seechewal Model adopted	-
143	Faridkot	Gram Panchayat Godara	Smadh bhai drain	45000	Photographs with geo-coordinates attached separatly	Yes	Treatment is done throught screening Chamber & stabilization pond , then treated water in Disposed in Drain	Drain	Point removed	-
144	Faridkot	Gram Panchayat Baja Khana	Smadh bhai drain	28000	Photographs with geo-coordinates attached separatly	Yes	Thapar Model	Drain	Point removed	-
145	Faridkot	Gram Panchayat Samadh Bhai	Smadh bhai drain	3000, 9000	Photographs with geo-coordinates attached separatly	Yes	-	-	Point removed	This village is not belong to faridkot district.
146	Fatehgarh Sahib	Village Water	Baba Banda Singh Bahadar Polytecnic Collage, Fatehgarh Sahib	—	30.650308.76.396781	Yes	STP installed and commissioned by MC Sirhind	for irrigation purposes and onto land for plantation	Pollution sources have been removed	STP installed and commissioned by MC Sirhind
147	Fatehgarh Sahib	Village Water	Baba Zoravar Singh Baba Fateh Singh Accadamy	—	30.64527.76.39410	Yes	STP installed and commissioned by MC Sirhind	for irrigation purposes and onto land for plantation	Pollution sources have been removed	STP installed and commissioned by MC Sirhind
148	Fatehgarh Sahib	Village Water	M.C. Sirhind	—	30.639367.76.387706	Yes	STP installed and commissioned by MC Sirhind	for irrigation purposes and onto land for plantation	Pollution sources have been removed	STP installed and commissioned by MC Sirhind
149	Fatehgarh Sahib	Village Water	Fatehpur Village	—	30.620803.76.299364	Yes	Seechewal Model adopted	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Seechewal Model adopted
150	Fatehgarh Sahib	Village Water	Village Badali	—	30.603025.76.286539	Yes	STP installed and commissioned by MC Amlloh	for irrigation purposes and onto land for plantation	Pollution sources have been removed	STP installed and commissioned by MC Amlloh
151	Fatehgarh Sahib	Village Water	Village Marru	—	30.56522.76.26805	Yes	Utilized through village Pond	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Utilized through village Pond
152	Fatehgarh Sahib	Village Water	Village Mahadian	—	30.653067.76.415719	Yes	Seechewal Model adopted	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Seechewal Model adopted
153	Fatehgarh Sahib	Village Water	Chandu Majra	—	30.567717.76.512197	Yes	Utilized through village Pond	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Utilized through village Pond

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154	Fatehgarh Sahib	Village Water	Patarsi	—	30.561014.76_502019	Yes	Utilized through village Pond	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Utilized through village Pond
155	Fatehgarh Sahib	Village Water	Chawla restaurant	—	30.60877, 76.39329	Yes	Used for plantation purpose after passing through oil & grease trap followed by septic tank	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Used for plantation purpose after passing through oil & grease trap followed by septic tank
156	Fatehgarh Sahib	Village Water	Hallotali	—	30.459261.76_428369	Yes	Utilized through village Pond	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Utilized through village Pond
157	Fatehgarh Sahib	Village Water	Rajinder Nagar	—	30.485694.76_348559	Yes	Utilized through village Pond	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Utilized through village Pond
158	Fatehgarh Sahib	Village Water	Rajinder Nagar	—	30.488455.76_351128	Yes	Utilized through village Pond	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Utilized through village Pond
159	Fatehgarh Sahib	Village Water	Tohra Mill vill Roorkee	—	30.520498.76_380273	Yes	Used for plantation purpose after passing through septic tank	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Used for plantation purpose after passing through septic tank
160	Fatehgarh Sahib	Village Water	Bhagatpura	—	30.63295.76_58575	Yes	Utilized through village Pond	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Utilized through village Pond
161	Fatehgarh Sahib	Village Water	Rasoolpur	—	30.637367.76_565603	Yes	Utilized through village Pond	for irrigation purposes and onto land for plantation	Pollution sources have been removed	Utilized through village Pond
162	Jalandhar	Village Domestic Waste	Kala singha drain	—	https://drive.google.com/file/d/16QV21TIE4F02A0RMvrye5aOJaQcsOmgL/view?usp=sharing	YES	Stone Pitching of the drain has been carried out at site further sewer line has been laid for disposal of domestic effluent	The domestic effluent is now discharged into Bulandpur sewer which is further dispose off into STP, Jaitewali and the treated effluent from STP is discharged into Jandu Singha drain during non demand period and during demand period treated effluent is utilized for irrigation purpose.	-	-
163	Jalandhar	Village Domestic Waste	Kala singha drain	—	https://drive.google.com/file/d/16QV21TIE4F02A0RMvrye5aOJaQcsOmgL/view?usp=sharing	Yes	Stone Pitching of the drain has been carried out at site further sewer line has been laid of disposal of domestic effluent	The domestic effluent is now discharged into Bulandpur sewer which is further dispose off into STP, Jaitewali and the treated effluent from STP is discharged into Jandu Singha drain during non demand period and during demand period treated effluent is utilized for irrigation purpose.	-	-

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164	Jalandhar	Village Domestic Waste	Kala singha drain	—	https://drive.google.com/file/d/16OV21TIE4F02A0RMvrye5aOJaQcsOmgl/view?usp=sharing	Yes	Stone Pitching of the drain has been carried out at site further sewer line has been laid of disposal of domestic effluent	The domestic effluent is now discharged into Bulandpur sewer which is further dispose off into STP, Jaitewali and the treated effluent from STP is discharged into Jandu Singha drain during non demand period and during demand period treated effluent is utilized for irrigation purpose.	-	-
165	Jalandhar	Village Domestic Waste	Kala singha drain	—	https://drive.google.com/file/d/1T5CFVYC0_NUdswK2JFJ7zo2O9vJyJnBm/view?usp=sharing	YES	Stone Pitching of the drain has been carried out at site further the domestic effluent is discharged into septic tank	Septic tanks provided by the residents	-	-
166	Jalandhar	Village Domestic Waste	Kala singha drain	—	https://drive.google.com/file/d/1B6K93XSbRfDCSRLCnMaY09ePu3rsIA7N/view?usp=sharing	YES	The domestic effluent discharged into village unlined pond system	The domestic effluent discharged into village unlined pond system having no outlet.	-	-
167	Jalandhar	Village Domestic Waste	Beas pind Rahimpur Drain	—	https://drive.google.com/file/d/10FhXPUKx5nls11sSctFqepb9Pko7Yrm0/view?usp=sharing	YES	STP is operational now	STP Kartarpur	-	STP Installed
168	Jalandhar	Village Domestic Waste	Taragarh choe	—	https://drive.google.com/file/d/1ClnhQ2XPTJMml-YWAM7yCt03gmgoaYz/view?usp=sharing	YES	STP is operational now	STP Adampur	-	-
169	Jalandhar	Village Domestic Waste	Taragarh choe	—	https://drive.google.com/file/d/1JnSj1VGQ7XDxt2SBs3qYjvdE4v6U_oHZ/view?usp=sharing	YES	Sewer pipeline connected to STP Adampur . STP is operational now	Sewer pipeline connected to STP Adampur . Further the treated effluent of STP is discharged into Taragarh Choe Drain	-	Sewer pipeline connected to STP
170	Jalandhar	Village Domestic Waste	Chommon Drain	—	https://drive.google.com/file/d/1GB6aV6ADyO4Bcte4zrcrczsEI6lw0vduS/view?usp=sharing	YES	As informed by the JE, Water Resources Department, the location was visited during the rainy season when water was overflowing into the drain. However, it has now been found to be dry	As informed by the JE, Water Resources Department, the location was visited during the rainy season when water was overflowing into the drain. However, it has now been found to be dry	-	-

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171	Jalandhar	Village Domestic Waste	Wadala Drain	—	https://drive.google.com/file/d/1FoujTPp5dlr7lpdplXCDTxTpKuiKClcA/viiew?usp=sharing	Yes	As informed by the JE, Water Resources Department, the location was visited during the rainy season when water was overflowing into the drain. However, it has now been found to be dry	As informed by the JE, Water Resources Department, the location was visited during the rainy season when water was overflowing into the drain. However, it has now been found to be dry	-	-
172	Jalandhar	Village Domestic Waste	Wadala Drain	—	https://drive.google.com/file/d/1aY_C_y00prR_EjJ3hGOTbqvX0wkHjUMN/view?usp=sharing	Yes	As informed by the JE, Water Resources Department, the location was visited during the rainy season when water was overflowing into the drain. However, it has now been found to be dry	As informed by the JE, Water Resources Department, the location was visited during the rainy season when water was overflowing into the drain. However, it has now been found to be dry	-	-
173	Jalandhar	Village Water	Kala Singha Drain	81000	31.319127°, 75.447466°	Yes	As informed by the JE, Water Resources Department, the pollution source is not a regular point. It was observed by Water Resources Dept. only during monsoon season. No domestic/industrial effluent was found discharged from this point into the drain.	-	-	As informed by the JE, Water Resources Department, the location was visited during the rainy season when water was overflowing into the drain. However, it has now been found to be dry. https://drive.google.com/open?id=10XN0CrXOW-1xR5XDX11PeZnwU4AwpyKS&usp=drive_fs
174	Patiala	Village Water (Gajewas)	Lehragaga main drain	—	30.288557/76.158409	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
175	Patiala	Village Water (Talwandi Malik)	Lehragaga main drain	—	30.282778/76.126931	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
176	Patiala	Village Water (Kalar Bhaini)	Patiala Nadi	—	30.264004/76.356078	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The waste water is treated to stored in the pond after treatment and is subsequently discharged into Drain	-	-
177	Patiala	Village Water (Gram Panchayat Vill. Balamgarh)	Miranpur Choe	—	30.274089/76.493504	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-

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178	Patiala	Village Water (Gram Panchayat Vill. Gangrola)	Miranpur Choe	—	30.242380/76.491417	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The waste water is treated to stored in the pond after treatment and is subsequently discharged into Drain	-	-
179	Patiala	Village Water (Gram Panchayat Vill. Bishngarh Jhungian)	Miranpur Choe	—	30.237404/76.488624	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
180	Patiala	Village Water (Gram Panchayat Vill. Khuda)	Miranpur Choe	—	30.260186/76.486571	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
181	Patiala	Village Water (Dhanori)	Patiala Nadi	—	30.156454, 76.270114	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
182	Patiala	Village Water (Panchayat Duggal Kalan)	Jhambowali Choe	—	29.991655, 76.041443	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
183	Patiala	Village Water (Village Panchayat Brass)	Jhambowali Choe	—	30.046827,76.056847	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
184	Patiala	Village Water (Village Panchayat Dharamgarh)	Jhambowali Choe	—	30.117857,76.122993	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
185	Patiala	Village Water (Village Panchayat Dodra)	Jhambowali Choe	—	30.146424,76.154327	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-

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186	Patiala	Village Water (Village Panchayat Bhedpuri)	Jhambowali Choe	—	30.153697, 76.146604	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
187	Patiala	Village Water (Village Panchayat Gajipur)	Jhambowali Choe	—	30.199514,76.164352	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
188	Patiala	Village Water (Village Panchayat Majri)	Jhambowali Choe	—	30.210443,76.174797	Yes	Vill Pond upgraded to Thapar Model technology for the treatment.	The treated wastewater is stored in the pond after treatment and is subsequently utilized for irrigation of agricultural crops.	-	-
189	Sri Muktsar Sahib	Village Water	Malout Drain	0-77700 (RD 38625)	Lat 30.164 Long 74.504	Yes	01 no. outfall discharging into the drain was found closed at site and the city sewage is presently being channelized through an alternate channel to the 10 MLD MBBR-based Terminal STP and then discharged into drain at 0-77700 (RD 35000)	Into Malout Drain after treatment through 10 MLD MBBR-based Terminal STP and then discharged into Malout drain at 0-77700 (RD 35000)	-	01 no. outfall found closed at site.
190	Ropar	Village Sewage Water	bhatton choe	—	Latitude 76.52060° Longitude 31.125°	Yes	Treatment is not required as during the physical verification of the said source it was observed that it is lying dry and the flow is observed only during the rainy season.	Physical verification has been completed, and the pollution sources have been removed	—	Physical verification has been completed, and the pollution sources have been removed
191	Ropar	Village Sewage Water	Bada Pind choe	—	Latitude 31° 6' 11.01"N Latitude 76° 36' 22.87"E	Yes	Treatment is not required as during the physical verification of the said source it was observed that it is lying dry and the flow is observed only during the rainy season.	Physical verification has been completed, and the pollution sources have been removed	—	Closed
192	Ropar	Village Sotal Sewage Water	Siswan Nadi	—	Latitude 30° 51' 40.38"N Latitude 76° 32' 27.53"E	Yes	Treatment is not required as during the physical verification of the said source it was observed that it is lying dry and the flow is observed only during the rainy season.	Physical verification has been completed, and the pollution sources have been removed	—	Physical verification has been completed, and the pollution sources have been removed
193	Ropar	Waste domestic water of Village Bhalla Bet	Bhallapurbi Choe	—	Latitude 31.040796° Longitude 76.379378°	Yes	Treatment is not required as during the physical verification of the said source it was observed that it is lying dry and the flow is observed only during the rainy season.	Physical verification has been completed, and the pollution sources have been removed	—	Physical verification has been completed, and the pollution sources have been removed

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194	Ropar	Waste domestic water of Villages from Village Kishanpur to Kathgarh Bet	Kishanpur Choe	—	Latitude 31.016868° Longitude 76.37147°	Yes	Treatment is not required as during the physical verification of the said source it was observed that it is lying dry and the flow is observed only during the rainy season.	Physical verification has been completed, and the pollution sources have been removed	—	Physical verification has been completed, and the pollution sources have been removed
195	Ropar	Waste domestic water of Village Kathgarh	Kathgarh Choe	—	Latitude 31.009218° Longitude 76.407382°	Yes	Treatment is not required as during the physical verification of the said source it was observed that it is lying dry and the flow is observed only during the rainy season.	Physical verification has been completed, and the pollution sources have been removed	—	Physical verification has been completed, and the pollution sources have been removed
196	Tarn Taran	Village Water Kamalpur	Shabajpur Drain	RD 0-6000	31.362305, 74.799436	Yes	Waste water discharged into oxidation pond of the village	Waste water discharged into oxidation pond of the village having no outlet.	-	The RD point is closed
197	Ferozepur	Village Kohala, Faredewala	Kohala Drain	10500	Kohala, Faredewala	YES	No Scientific treatmmt. Only oxidation ponds	Domestic waste water is utilized by farmers	NA	—
198	Ferozepur	Village SherKhan	Mohkam Bhatti Drain	2000, 8000	Village SherKhan	YES	No Scientific treatmmt. Only oxidation ponds	Domestic waste water is utilized by farmers	NA	—
199	Ferozepur	Village Sewage Water	Mahla Khurd Drain	6900	Village Sewage Water	YES	No Scientific treatmmt. Only oxidation ponds	Domestic waste water is utilized by farmers	NA	—
200	Ferozepur	Village Sewerage Water of Dulla Singh Wala	Rodewala Drain	40000	Sewerage Water of Village Dulla Singh Wala	yes	No Scientific treatmmt. Only oxidation ponds	Domestic waste water is utilized by farmers	NA	—
201	Ludhiana	Village water	Rakh drain	14250	https://docs.google.com/document/d/1nfF-cTYUXV0kK4yeZ9rcml78AyA-4h_zxKa18eZbCf4/edit?usp=sharing	Yes	Rain water Discharge point.	Physical verification has been completed and pollution source has been removed	pollution source has been removed	Rain water Discharge point.
202	Ludhiana	Village water, Rattipur bridge	MCM Upper	41885	https://docs.google.com/document/d/1oc rEAztGcg_qDVGvwzE GSGXYLUdyuU6Q6B TbWVVi6YE/edit?usp=sharing	yes	The Village waste water is disposed into nearby pond of the village.	The Village waste water is disposed into nearby pond of the village having no outlet. The Water from this pond is used in the fields for irrigation of corps	The Water from this pond is used in the fields for irrigation of corps	The Village waste water is disposed into nearby pond of the village having no outlet. The Water from this pond is used in the fields for irrigation of corps
203	Ludhiana	Village water, Budhewal	Budda Dariya	20200	https://docs.google.com/document/d/1IPq8Nq5gSPpNOvEzonOeChPkjlot0FiEASNH Wn0CFJY/edit?usp=sharing	Yes	Repeated Entry	Repeated Entry	pollution source has been removed	Physical verification has been completed and pollution source has been removed

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaition mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
204	Ludhiana	Village Water	Buddha Dariya	—	ਭੂਖੜੀ ਖੁਰਦ (30.930003, 75.981178)	Yes	Presently, there is no Discharge into Buddha Dariya. Pond recently established and waste water is being collected at very slow rate. Department of Soil and Conservation is preparing the scheme for utilizing the treated sewage of such villages for irrigation.	Presently, there is no Discharge into Buddha Dariya. Pond established and waste water is being collected at very slow rate.	NA	Presently, there is no Discharge into Buddha Dariya. Pond established.
205	Ludhiana	Village Water	Buddha Dariya	—	ਭੂਖੜੀ ਕਲਾਂ (30.930697, 75.973402)	Yes	Presently, there is no Discharge into Buddha Dariya. Pond recently established and waste water is being collected at very slow rate. Department of Soil and Conservation is preparing the scheme for utilizing the treated sewage of such villages for irrigation.	Presently, there is no Discharge into Buddha Dariya. Pond established and waste water is being collected at very slow rate.	NA	Presently, there is no Discharge into Buddha Dariya. Pond established.
206	Ludhiana	Village Water		—	Ghure (30.8334473, 75.581031)	Yes	Pond established. The waste water is being collecteds into the pond. Department of Soil and Conservation is preparing the scheme for utilizing the treated sewage of such villages for irrigation.	Pond established, waste water is being collecteds into the pond.	NA	Pond established
207	Ludhiana	Village Water		—	Jagraon City, Village Kothe Hari Singh, Gurusar, Jagraon City Near Gurudwara Nanaksar Sahib (30.802243, 75.428498)	Yes	Pond established. The waste water is being collecteds into the pond. Department of Soil and Conservation is preparing the scheme for utilizing the treated sewage of such villages for irrigation.	Pond established, waste water is being collecteds into the pond.	NA	Pond established
208	Ludhiana	Village Water		—	Village Swaddi (30.873385, 75.588111)	Yes	Pond established. The waste water is being collecteds into the pond. Department of Soil and Conservation is preparing the scheme for utilizing the treated sewage of such villages for irrigation.	Pond established, waste water is being collecteds into the pond.	NA	Pond established
209	Ludhiana	Village Water		—	ਤਾਜਪੁਰ (30.92942, 75.939461)	Yes	The outlet has been conncted with the STP 225 MLD Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
210	Ludhiana	Village Water	Bassian Drain	—	Kotaga	Yes	Utilized through village pond	for irrigation purposes and onto land for plantation	-	-
211	Ludhiana	Village Water	Bassian Drain	—	Shahpur	Yes	Utilized through village pond	for irrigation purposes and onto land for plantation	-	-
212	Ludhiana	Village Water	Lalton Pamal	—	Pamal	Yes	Utilized through village pond	for irrigation purposes and onto land for plantation	-	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co- ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
213	Ludhiana	Village Water	Jassowal Drain	—	Mohi	Yes	Thappar model has been adopted	for irrigation purposes and onto land for plantation	-	-
214	Ludhiana	Village Water	Jassowal Drain	—	Hissowal	Yes	Seechewal model has been adopted	for irrigation purposes and onto land for plantation	-	-
215	Sangrur	Village Munshiwal	Lehragaga main drain	215000	30.25272, 76.142589	YES	-Pond is emptied every Six monthly into the neighbouring fields	-Pond is emptied every Six monthly into the neighbouring fields	Not Aplicable	-
216	Sangrur	village balran	lehragaga main drain RD 0-70500	23000	29.862752, 75.822093	YES	USED OF IRRIGATION PURPOSE	USED OF IRRIGATION PURPOSE	Not Applicable	-
217	Sangrur	village Ubheya	lehragaga main drain RD 70500-143000	86000	29.986612, 75.9534	YES	USED OF IRRIGATION PURPOSE	USED OF IRRIGATION PURPOSE	Not Applicable	-
218	Sangrur	village Diwargarh Kaimpar	lehragaga main drain RD 70500-143000	108000	30.039056, 75.96599	YES	Disposed in Drain	Disposed in Drain	Not Applicable	-
219	Sangrur	village Kaimpar	lehragaga main drain RD 70500-143000	113000	30.029347, 75.960161	YES	Thapar Model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Not Applicable	-
220	Sangrur	village Kaimpar	L-1 link drain	12500	30.035285 75.971542	YES	Thapar Model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Not Applicable	-
221	Sangrur	village Toorbanjara	L-2a link drain	18000	30.094262 75.964783	YES	-Pond is emptied every Six monthly into the neighbouring fields	-Pond is emptied every Six monthly into the neighbouring fields	Not Aplicable	-
222	Sangrur	village Dhandoli kalan	L-2 link drain	40000	30.041166 75.937604	YES	-Pond is emptied every Six monthly into the neighbouring fields	-Pond is emptied every Six monthly into the neighbouring fields	Not Aplicable	-
223	Sangrur	village Janal	L-2 link drain	50000	30.066352 75.953629	YES	Thapar Model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Not Aplicable	-
224	Sangrur	village Janal	L-2 link drain	55500	30.071015 75.95219	YES	Thapar Model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Not Aplicable	-
225	Sangrur	village Kotra Lehal	Lehragaga link drain	17000	29.894403 75.779499	YES	Work in progress	USED FOR IRRIGATION PURPOSE	Not Aplicable	-
226	Sangrur	village Bhai k Pishor	Lehragaga link drain	72000	29.981527 75.882147	YES	USED OF IRRIGATION PURPOSE	USED OF IRRIGATION PURPOSE	Not Applicable	-
227	Sangrur	village Bhai k Pishor	L-5 link drain	28000	29.979169 75.863505	YES	USED OF IRRIGATION PURPOSE	USED OF IRRIGATION PURPOSE	Not Applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
228	Sangrur	Village Haryau, Sangatpura, Bhaini, Chajjla, Chajjli	Breta Drain	145500/LS	29.968875 75.753437	YES	Village Chhajli tp is reuired, Funds are in sufficient, HARIYAO VILLAGE(TP WORK IN PROGRESS), VILLAGE SANGATPURA TP IS REQUIRED, FUNDS ARE INSUFFICIENT.	Village Chhajli tp is reuired, Funds are in sufficient, HARIYAO VILLAGE(TP WORK IN PROGRESS), VILLAGE SANGATPURA TP IS REQUIRED, FUNDS ARE INSUFFICIENT.	Not Applicable	-
229	Sangrur	Village Nangla	B-5 Link Drain 0-22000	12110	30.006791 75.834733	YES	USED OF IRRIGATION PURPOSE	USED OF IRRIGATION PURPOSE	Not Applicable	-
230	Sangrur	Village Kishangarh, Ladal, Lehra, Arakwas	Ladal Link Drain RD 7800-44400	20000	29.930737 75.755106	YES	Thapar Model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant(LADAL)	Not Applicable	-
231	Sangrur	Village Chajjli, Chatha Nanheda, Ratolan,	B-3 Link Drain 0-48500	8000	30.030907 75.856375	YES	in village chatha naheda treated water is disposed in drain and used for irrigation purposes	in village chatha naheda treated water is disposed in drain and used for irrigation purposes	TP IS UNDER PROCESS,	-
232	Sangrur	Village Kularan, Tungan, Kheri, Kanoi, Kammomajra, Ilwal, Sohian, Khurani, Khurana, Naiwala, Bhindran	Sangrur Drain 0-50000	3500	30.165881 75.842718	YES	Thapar Model treatment plan	In village Kularan Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant. Thaper model work in progress	Not Applicable	-
233	Sangrur	Village Kularan, Tungan, Kheri, Kanoi, Kammomajra, Ilwal, Sohian, Khurani, Khurana, Naiwala, Bhindran	Sangrur Drain 0-50000	50000	30.263532 75.913709	YES	Thapar Model treatment plant	Disposed in drain after treated with Thapar Model treatment plant	Not Applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co- ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
234	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	166000	30.053793 75.642495	YES	satoj 2 thappar model is completed	treated water is disposed in drain village satoj	Not Applicable	-
235	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	166900	30.051632, 75.657135	YES	water disposed in drain village dharamgarh	water disposed in drain village dharamgarh	Not Applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
236	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	173000	30.053603 75.672934	YES	treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas	treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas	Not Applicable	-
237	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	176500	30.061063 75.677785	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not Applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
238	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	188500	30.061852 75.714762	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not Applicable	-
239	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	191000	30.066304 75.724183	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not Applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co- ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
240	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	192000	30.066779 75.724531	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not Applicable	-
241	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	249600	30.151778 75.833007	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not Applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co- ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
242	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	244000	30.148952 75.82058	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not Applicable	-
243	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	240400	30.14312 75.81043	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not Applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co- ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
244	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	237000	30.138667 75.802468	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not Applicable	-
245	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	228500	30.127895 75.791397	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
246	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	210850	30.100598, 75.751967	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not applicable	-
247	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	283250	30.188078, 75.972202	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not applicable	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
248	Sangrur	Village Satoj, Dharmgarh, Jakhepal, Cheema, Gasiwal, Chathe Nakte, Kularan, Mehlan, Sajuma, Gagarpur, Balwad Khurac, Balwad Kalan, Ghrachon, Kaludi, Gurdaspura, Ghabdhan, Jalan, Santokhpura, Kheri Chandma, Rasulpur Gehlan, Nandgarh, Bisanpura, Akalgarh, Moranwali, Sunam Sehar, Bajigir Basti, Parmanand Basti , Gurdaspura	Sirhind Choe 161105-347000	296100	30.26402, 75.953448	YES	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	water disposed in drain village dharamgarh thappar model is completed treated water is disposed in drain village jakhepal humbalbas and dhaliwalbas thappar model is completed	Not applicable	-
249	Sangrur	waste water discharge by village lohakheda	sahoke drain	65000	30.211732 75.618635	YES	Thapar model treatment plant	Disposed in drain after treated with Thapar model treatment plant	Not Applicable	-
250	Sangrur	waste water discharge by village bhamma baddi	dhuri link drain	6600	30.256651 75.747018	YES	Thapar model treatment plant	Disposed in drain after treated with Thapar model treatment plant	Not Applicable	-
251	Sangrur	waste water discharge by village ladda	dhuri link drain	34200	30.307302 75.779066	YES	Thapar model treatment plant	Disposed in drain after treated by Thapar model treatment plant	Thapar Model Treatment plant is already functioning	-
252	Sangrur	waste water discharge by village bhamma baddi	bahadar Singh Wala drain	128000	30.236246 75.755290	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Not Applicable	-
253	Sangrur	Waste water discharge by village kheri jattan	bahadar Singh Wala drain	236200	30.432689 75.956016	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
254	Sangrur	Waste water discharge by village Dadhogal	bahadar Singh Wala drain	240000	30.437761 75.963384	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
255	Sangrur	Waste water discharge by village Jainpur	Dhuri Drain	137000	30.451814 75.943697	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-

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256	Sangrur	Waste water discharge by village Kaulsedi	Bhagwanpura Link Drain	40000	30.372123 75.953251	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
257	Sangrur	Waste water discharge by village Meemsa	Bhagwanpura Link Drain	44444	30.378704 75.962259	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
258	Sangrur	Waste water discharge by village Cheema	Bhagwanpura Link Drain	53200	30.395568 75.975104	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
259	Sangrur	Waste water discharge by village Burj	Bhagwanpura Link Drain	54000	30.398070 75.977180	YES	Thapar model treatment plant	Disposed in drain	Thapar Model Treatment plant is already functioning	-
260	Sangrur	Waste water discharge by village bhaddalwal	Bhagwanpura Link Drain	28000	30.349819 75.925032	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
261	Sangrur	Waste water discharge by village kaulseri	Bhagwanpura Link Drain	38000	30.319594 75.89533	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
262	Sangrur	Waste water discharge by village kanjhla	Dhuri Drain	54000	30.313099 75.770582	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
263	Sangrur	Waste water discharge by village punnawal	Dhuri Drain	66000	30.332419 75.793383	YES	Thapar model treatment plant	Disposed in drain	Thapar Model Treatment plant is already functioning	-
264	Sangrur	Waste water discharge by village pedhni	Dhuri Drain	69900	30.347115 75.79952	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
265	Sangrur	Waste water discharge by village kakkarwal	Dhuri Drain	77500	30.363513 75.8111656	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
266	Sangrur	Waste water discharge by village jahangir	dhuri Drain	86500	30.387428 75.819634	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
267	Sangrur	Waste water discharge by village dhura	bahadar Singh Wala drain	197000	30.356626 75.887753	YES	Thapar model treatment plant	Disposed in drain	Thapar Model Treatment plant is already functioning	-
268	Sangrur	Waste water discharge by village bhularherhi	Bhagwanpura Link Drain	35400	30.36195, 75.944323	YES	Thapar model treatment plant	Disposed in drain	Thapar Model Treatment plant is already functioning	-
269	Sangrur	Waste water discharge by village bangawali	Dhuri drain	116000	30.412222, 75.904099	YES	Thapar model treatment plant	Disposed in drain as well as use for irrigation purpose after treated with Thapar Model treatment plant	Thapar Model Treatment plant is already functioning	-
270	Malerkotla	waste water discharge by village lasoi	Upper Lissara Drain	30.602123 75.99702	284000	Yes	Thapar model treatment plant	Disposed in drain after treated with Thapar Model treatment plant	-	-
271	Malerkotla	waste water discharge by village morawali	Upper Lissara Drain	30.597495 75.981122	275000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
272	Malerkotla	waste water discharge by village saraudh	Upper Lissara Drain	30.561776 75.924488	260000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
273	Malerkotla	waste water discharge by village rannwa	Upper Lissara Drain	30.539894 75.90955	250000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
274	Malerkotla	waste water discharge by village naudharani	Upper Lissara Drain	30.494456 75.859995	222000	Yes	Thapar model treatment plant	Disposed in drain after treated with Thapar Model treatment plant	-	-
275	Malerkotla	waste water discharge by village ahan kheri	Upper Lissara Drain	30.489597 75..842507	214000	Yes	Thapar model treatment plant	Disposed in drain after treated with Thapar Model treatment plant	-	-
276	Malerkotla	waste water discharge by village faridpur kalan	Upper Lissara Drain	30.483758 75.827486	205000	Yes	Thapar model treatment plant	Disposed in drain after treated with Thapar Model treatment plant	-	-
277	Malerkotla	waste water discharge by village faridpur khurd	Upper Lissara Drain	30.488658 75.81815	205000	Yes	TP+Pipeline. Work will be completed within 3Month after receiving the required funds from Govt.	-	-	-
278	Malerkotla	waste water discharge by village bhudan	Upper Lissara Drain	Lat.= 30.506237 Longt.= 75.796548	195000	Yes	Thapar model treatment plant	Disposed in drain after treated with Thapar Model treatment plant	-	-
279	Malerkotla	waste water discharge by village kuthala	Upper Lissara Drain	Lat.= 30.512844 Longt.= 75.75375	178000	Yes	Thapar model treatment plant	Disposed in drain after treated with Thapar Model treatment plant	-	-
280	Malerkotla	waste water discharge by village badesan	Upper Lissara Drain	Lat.= 30.504697 Longt.= 75.730168	172000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
281	Malerkotla	waste water discharge by village akbarpur cheema	BBK drain	Lat.= 30.657196 Longt.= 75.85279	15000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
282	Malerkotla	waste water discharge by village jhaner	Jaghera drain	Lat.= 30.586059 Longt.= 75.794206	16000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-

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283	Malerkotla	waste water discharge by village choti dhaner and waddi dhaner	Jaghera drain	Lat.= 30.600389 Longt.= 75.801325	22000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
284	Malerkotla	waste water discharge by village kangan wal	Jaghera drain	Lat.= 30.611928 Longt.= 75.81115	27000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
285	Malerkotla	waste water discharge by village kupp wadda	Jaghera link Drain	Lat.= 30.609979 Longt.= 75.855342	2000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
286	Malerkotla	waste water discharge by village bathan	Jaghera link Drain	Lat.= 30.602646 Longt.= 75.830534	3000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
287	Malerkotla	waste water discharge by village kup kalan	Jaghera link Drain	Lat.= 30.617185 Longt.= 75.864056	24000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
288	Malerkotla	waste water discharge by village hathoa	Kairon Drain	Lat.= 30.525834 Longt.= 75.918956	4000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
289	Malerkotla	waste water discharge by village beejo ki kalan	Kairon Drain	Lat.= 30.525772 Longt.= 75.91891	4200	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
290	Malerkotla	waste water discharge by village saahe ke	Kairon Drain	Lat.= 30.537727 Longt.= 75.954644	13000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
291	Malerkotla	waste water discharge by village rurki kalan	Kairon Drain	Lat.= 30.556884 Longt.= 76.015924	30000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
292	Malerkotla	waste water discharge by village gajjan majra	Kairon Drain	Lat.= 30.565112 Longt.= 76.026478	34000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
293	Malerkotla	waste water discharge by village Bhurthala mander	Kairon Drain	Lat.= 30.57667 Longt.= 76.033116	51000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
294	Malerkotla	Waste water discharge by village Chaonda	bahadar Singh Wala drain	Lat.= 30.51512 Longt.= 76.05411	276500	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
295	Malerkotla	Waste water discharge by village Tolewal	Dhuri Drain	Lat.= 30.481515 Longt.= 75.973173	151000	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
296	Malerkotla	Waste water discharge by village Alipur	Bhagwanpura Link Drain	Lat.= 30.471485 Longt.= 76.042823	80500	Yes	Waste stabilization pond disposed into the drain.	Disposed into the drain	-	-
297	SAS Nagar	(Village Water) Pipe containing contaminated water outlet point	Jhirmal Nadi	—	No outlet at location (30.577728, 76.883977)	Yes	No outlet was found at RD mentioned earlier	No outlet was found at RD mentioned earlier	Pollution sources have been removed	No discharge is being done at the site.

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
298	SAS Nagar	(Village Water) Pipe containing contaminated water outlet point	Jhirmal Nadi	—	The source has been removed at location (30.580081,76.890495)	Yes	The pipes were strom water outlets of Hansa Industrial Park, which were carrying rain water only. The effluent is being treated in the park in their ETPs	Onto plantation by respective indsutries	Pollution sources have been removed	No discharge is being done at the site.
299	SAS Nagar	(Village Water) Pipe containing contaminated water outlet point	Jhirmal Nadi	—	The source has been removed at location (30.580081,76.890495)	Yes	The pipes were strom water outlets of Hansa Industrial Park, which were carrying rain water only. The effluent is being treated in the park in their ETPs	Onto plantation by respective indsutries	Pollution sources have been removed	No discharge is being done at the site.
300	Moga	Village Water	Ajitwal Link Drain	32000 ft	30.81439, 75.251056	yes	Thapar Model has been adopted to treat the waste water generated from village Mahina, Chugawan, Ajitwal and the waste water is treated with aerobic technology.	After treatment the waste water is discharged into drain/pond/agriculture land.	Thapar Model Treatment plant is already functioning	-
301	Moga	Village Water	Attari Drain	18000 ft	30.854331, 75.039798	YES	Thapar Model has been adopted to treat the waste water generated from village Atari and the waste water is treated with aerobic technology.	After treatment the waste water is discharged into drain.	Thapar Model Treatment plant is already functioning	-
302	Moga	Village Water	Bassian Outfall Drain	2500-11000-18000-22000-24000-27000-30000-30500-31000-33900-44000-46150-50000-57000-58500-58800-	30.507793, 75.235871	yes	Thapar Model has been adopted to treat the waste water generated from village Dina and the waste water is treated with aerobic technology.	After treatment the waste water is discharged into drain/pond/agriculture land.	Thapar Model Treatment plant is already functioning	-
303	Moga	Village Water	Buttar Drain	22000-23800-24000-36000-36500-	30.71487, 75.16388	yes	Thapar Model has been adopted to treat the waste water generated from village Ramuwala Kalan, Buttar and the waste water is treated with aerobic technology.	After treatment the waste water is discharged into drain/pond/agriculture land.	Thapar Model Treatment plant is already functioning	-
304	Moga	Village Water	Chand Bhan	116570-119300-126000-143100-145960-146500-158800-161000-161500-166600-171000-175500-180000-	30.521929, 75.192723	YES	Thapar Model has been adopted to treat the waste water generated from village Kishan Garh and the waste water is treated with aerobic technology.	After treatment the waste water is discharged into drain/pond/agriculture land.	Thapar Model Treatment plant is already functioning	-
305	Moga	Village Water	Mari drain	44100-48050-50500-58525-61800	30.563768, 75.007735	yes	Thapar Model has been adopted to treat the waste water generated from village Sekha Kalan, Vairoke, Ladhaike and the waste water is treated with aerobic technology.	After treatment the waste water is discharged into drain/pond/agriculture land.	Thapar Model Treatment plant is already functioning	-

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306	Moga	Village Water	Smadh Bhai	79000 ft	30.623626, 75.152997	yes	Thapar Model has been adopted to treat the waste water generated from village Cheera, Sukhanand, Baraj, Kotla Rai ka, Samadh Bhai and the waste water is treated with aerobic technology.	After treatment the waste water is discharged into drain/pond/agriculture land.	Thapar Model Treatment plant is already functioning	-
307	Moga	Village Water	Phidda DRAin	102000	30.774484, 75.94803	yes	Thapar Model has been adopted to treat the waste water generated from village Malan Kalan, Langiana Purana, Langiana Nawan, Jaimal Wala, Jai singh, Jai Singh Wala, Charik, Rania, Burj Duna and the waste water is treated with aerobic technology.	After treatment the waste water is discharged into drain/pond/agriculture land.	Thapar Model Treatment plant is already functioning	-
308	Moga	Village Water	Dagru	82000	30.788074, 75.931988	yes	Thapar Model has been adopted to treat the waste water generated from village Daggru and the waste water is treated with aerobic technology.	After treatment of water the treated water was discharged into drain and this water is also used for some agriculture purpose.	Thapar Model Treatment plant is already functioning	-

District wise information of closed water pollution sources relating to Urban Local Bodies

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
1	Amritsar	Corporation Water/ULB	Tung Dhab Drain	2420	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
2	Amritsar	Corporation Water/ULB	Tung Dhab Drain	2450	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
3	Amritsar	Corporation Water/ULB	Tung Dhab Drain	23716	NA	Yes	Captive STP	Onto land for plantation	NA	-
4	Amritsar	Corporation Water/ULB	Tung Dhab Drain	38230	NA	Yes	Captive STP	Onto land for horticulture	NA	-
5	Amritsar	Corporation Water/ULB	Tung Dhab Drain	38637	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
6	Amritsar	Corporation Water/ULB	Tung Dhab Drain	38928	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
7	Amritsar	Corporation Water/ULB	Tung Dhab Drain	39008	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
8	Amritsar	Corporation Water/ULB	Tung Dhab Drain	39074	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
9	Amritsar	Corporation Water/ULB	Tung Dhab Drain	39231	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
10	Amritsar	Corporation Water/ULB	Tung Dhab Drain	39396	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
11	Amritsar	Corporation Water/ULB	Tung Dhab Drain	39641	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
12	Amritsar	Corporation Water/ULB	Tung Dhab Drain	39795	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
13	Amritsar	Corporation Water/ULB	Tung Dhab Drain	39895	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
14	Amritsar	Corporation Water/ULB	Tung Dhab Drain	39965	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
15	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40040	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
16	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40098	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
17	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40151	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
18	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40551	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
19	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40651	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
20	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40771	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
21	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40858	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
22	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40913	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
23	Amritsar	Corporation Water/ULB	Tung Dhab Drain	40926	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
24	Amritsar	Corporation Water/ULB	Tung Dhab Drain	410356/R	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-

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Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
25	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41035/L	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
26	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41092	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
27	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41177	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
28	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41234	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
29	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41246	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
30	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41394	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
31	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41594	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
32	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41984	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
33	Amritsar	Corporation Water/ULB	Tung Dhab Drain	41994	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
34	Amritsar	Corporation Water/ULB	Tung Dhab Drain	42060	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
35	Amritsar	Corporation Water/ULB	Tung Dhab Drain	42130	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
36	Amritsar	Corporation Water/ULB	Tung Dhab Drain	43495	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
37	Amritsar	Corporation Water/ULB	Tung Dhab Drain	43500	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
38	Amritsar	Corporation Water/ULB	Tung Dhab Drain	43920	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
39	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44060	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
40	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44260	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
41	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44290	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
42	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44335	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
43	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44385	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
44	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44415	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
45	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44475	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
46	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44515	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
47	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44550	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
48	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44565	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
49	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44580	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-

50	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44600	NA	Yes	386 Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaition mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
51	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44660	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
52	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44695	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
53	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44720	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
54	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44745	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
55	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44785	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
56	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44865	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
57	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44880	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
58	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44895	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
59	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44910	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
60	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44930	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
61	Amritsar	Corporation Water/ULB	Tung Dhab Drain	44945	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
62	Amritsar	Corporation Water/ULB	Tung Dhab Drain	45170	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
63	Amritsar	Corporation Water/ULB	Tung Dhab Drain	48070	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
64	Amritsar	Corporation Water/ULB	Tung Dhab Drain	26820	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
65	Amritsar	Corporation Water/ULB	Tung Dhab Drain	45030	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
66	Amritsar	Corporation Water/ULB	Tung Dhab Drain	45220	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
67	Amritsar	Corporation Water/ULB	Tung Dhab Drain	45000	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
68	Amritsar	Corporation Water/ULB	Tung Dhab Drain	45955	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
69	Amritsar	Corporation Water/ULB	Verka Drain	7190	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
70	Amritsar	Corporation Water/ULB	Verka Drain	7844	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
71	Amritsar	Corporation Water/ULB	Verka Drain	10000	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
72	Amritsar	Corporation Water/ULB	Verka Drain	14430	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
73	Amritsar	Corporation Water/ULB	Verka Drain	14685	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
74	Amritsar	Corporation Water/ULB	Verka Drain	9012	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
75	Amritsar	Corporation Water/ULB	Verka Guntala Link Drain	1500	NA	Yes	Connected with MC Sewer leading to STP	Into drain after treatment	NA	-

76	Amritsar	Corporation Water/ULB	Verka Guntala Link Drain	1900	NA	Yes	387 Connected with MC Sewer leading to STP	Into drain after treatment	NA	-
Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaition mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
77	Mansa	ULB Stp Sardulgarh	Ghaggar River	—	Latitude 29.691794; Longitude 75.219518	Yes	The STP based on WSP technology was found operational during the visit. Regular sampling of the treated effluent is being carried out, and	The treated effluent is being utilized for irrigation purposes. Any excess treated water is discharged into the drain; however, at the time of inspection, no discharge into the drain was observed.	--	-
78	Mansa	ULB Sewage Waste of Bareta	Bareta Drain	—	Latitude 29.868082; Longitude 75.671150	Yes	The discharge point has now been connected with the STP Bareta .	The treated effluent is being utilized for irrigation purposes. Any excess treated water is discharged into the drain; however, at the time of inspection, no discharge into the drain was observed.	--	-
79	Mansa	ULB Sewage Waste of Budhlada	Dodra link Drain	—	Latitude 29.946906; Longitude 75.561198	yes	The discharge point has now connected with the STP Budhlada @ 6.5 MLD using MBBR Technology.	The treated effluent is being utilized for irrigation purposes. Any excess treated water is discharged into the drain; however, at the time of inspection, no discharge into the drain was observed.	--	-
80	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.807267, 75.179334	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
81	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.814080, 75.195161	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
82	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.815051, 75.197248	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
83	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.818622, 75.203549	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
84	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.818638, 75.207525	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
85	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.821020, 75.209513	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
86	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.821079, 75.209386	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
87	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.824833, 75.136159	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	388 If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
88	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.814061, 75.221787	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
89	Gurdaspur	ULB Outlet	Kasoor Nallah	—	31.818988, 75.227553	Yes	Connected with STP, Batala	Treated Effuent of STP is being discharged into Kasoor Nallah.	the pollution sources have been removed	-
90	Jalandhar	ULB Outlet	Kala Singha Drain	123200-124000	31.352967°, 75.5564048°	Yes	The pollution source has been removed, and stone pitching has been laid along the sides of the drain. The outlet has now been connected with sewer line leading to STPs based on SBR technology at Basti Peer Daad, Jalandhar. The work of irrigation network for utilizing treated sewage from theses STPs has already been completed by the Department of Soil Conservation, Punjab and is operational. Treated sewage is discharged into the above said irrigation network during demand period and during no demand period the same is discharged into Kala Sanghian Drain.	Treated sewage is discharged into the above said irrigation network during demand period and during no demand period the same is discharged into Kala Sanghian Drain.	-	The pollution source has been removed, and stone pitching has been laid along the sides of the drain. https://drive.google.com/open?id=1YyseBMoLreUM5V1Xi_0UGqAE08mJXZF&usp=drive_fs
91	Jalandhar	ULB Outlet	Kala Singha Drain	123700	31.351107°, 75.55129°	Yes	The pollution source has been removed, and stone pitching has been laid along the sides of the drain. The outlet has now been connected with sewer line leading to STPs based on SBR technology at Basti Peer Daad, Jalandhar. The work of irrigation network for utilizing treated sewage from theses STPs has already been completed by the Department of Soil Conservation, Punjab and is operational. Treated sewage is discharged into the above said irrigation network during demand period and during no demand period the same is discharged into Kala Sanghian Drain	Treated sewage is discharged into the irrigation network during demand period and during no demand period the same is discharged into Kala Sanghian Drain	-	The pollution source has been removed, and stone pitching has been laid along the sides of the drain. https://drive.google.com/open?id=1TvTDVzMDCtrL9hscxOgx5j9-PQWcDJF&usp=drive_fs

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	389 If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
92	Sri Muktsar Sahib	ULB	Kuraiwala Enna khera Malout link Drain	0-63600 (RD 4699)	Lat 30.182 Long 74.472	Yes	Earlier provided, 01 no. channel carrying the outfall of Malout City sewage into the drain was found damaged at site during inspection and the city sewage is presently being channelized through an alternate channel to the 10 MLD MBBR-based Terminal STP and then discharged into drain at 0-77700 (RD 35000)	Into Malout Drain after treatment through 10 MLD MBBR-based Terminal STP and then discharged into Malout drain at 0-77700 (RD 35000)	-	Earlier provided, 01 no. channel carrying the outfall of Malout City sewage into the drain was found damaged at site during inspection.
93	Ferozepur	ULB Town Mallanwala (Municipal Commette)	Ferozepur Drainage Division	2000	Town Mallanwala (Municipal Commette)	yes	No Scientific treatmmt. Only oxidation ponds	Domestic waste water is utilized by farmers	NA	Proposal have been prepared by Nagar Panchayat Mallanwala to establish STP
94	Ferozepur	ULB (Town Talwandi Bhai)	Talwandi Bhai Drain	600-25000	Town Talwandi Bhai	Yes	STP of 04 MLD based on SBR technology installed	Treated water is utilized by farmers	NA	-
95	Ferozepur	ULB (Cantonment Board Ferozepur Cantt.)	Sukhbar Nallah	4000	Cantonment Board Ferozepur Cantt.	YES	STP of 07 MLD based on MBBR technology installed	Treated water is reused in parks, green areas and forest area	NA	-
96	Ludhiana	ULB Outlet		—	Pavitar Nagar Haibowal Kalan (30.917842,75.806359)	Yes	Outlet closed. It has been connected to terminal STP Balloke	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
97	Ludhiana	ULB Outlet		—	Pritam Nagar Civil Lines Ludhiana (30.919702,75.826638)	Yes	Outlet closed. It has been connected to terminal STP Balloke.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
98	Ludhiana	ULB Outlet		—	Pritam Nagar Civil Lines Ludhiana (30.921298,75.830159)	Yes	Outlet closed. It has been connected to terminal STP Balloke.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
99	Ludhiana	ULB Outlet		—	Hargobindpura Civil Lines (30.923406,75.832933)	Yes	Outlet closed. It has been connected to terminal STP Balloke.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
100	Ludhiana	ULB Outlet		—	Salemtabri Ludhiana (30.927802,75.837513)	Yes	Outlet closed. It has been connected to terminal STP Bhattian.	It has been connected to terminal STP. The discharge of STP is into Sutlej.	NA	-
101	Ludhiana	ULB Outlet		—	Tajpur Chowk Grewal Market Guru Arjan Dev Nagar (30.91732,75.877646)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
102	Ludhiana	ULB Outlet		—	Street no 2 Rishi Nagar Haibowal (30.917808,75.882343)	Yes	Outlet closed. It has been connected to terminal STP Balloke.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	390 If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
103	Ludhiana	ULB Outlet		—	Sandhu Colony Guru Arjan Dev Nagar (30.917986,75.884282)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
104	Ludhiana	ULB Outlet		—	Haibowal (30.91803,75.885232)	Yes	Outlet closed. It has been connected to terminal STP Balloke.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
105	Ludhiana	ULB Outlet		—	Ramesh Nagar (30.918085,75.885453)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
106	Ludhiana	ULB Outlet		—	Iqbal Nagar Ramesh Nagar(30.918149,75.886524)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
107	Ludhiana	ULB Outlet		—	Iqbal Nagar Ramesh Nagar (30.918089,75.886768)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
108	Ludhiana	ULB Outlet		—	Iqbal Nagar Ramesh Nagar (30.918131,75.886846)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
109	Ludhiana	ULB Outlet		—	Iqbal Nagar Ramesh Nagar (30.918142,75.886902)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
110	Ludhiana	ULB Outlet		—	Iqbal Nagar Ramesh Nagar (30.918221,75.88699)	Yes	Outlet closed. It has been connected to terminal STP jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
111	Ludhiana	ULB Outlet		—	Iqbal Nagar Ramesh Nagar (30.918304,75.887142)	Yes	Outlet closed. It has been connected to terminal STP jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
112	Ludhiana	ULB Outlet		—	Iqbal Nagar Ramesh Nagar(30.918276,75.888002)	Yes	Outlet closed. It has been connected to terminal STP jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
113	Ludhiana	ULB Outlet		—	Iqbal Nagar Ramesh Nagar(30.9179,75.888183)	Yes	Outlet closed. It has been connected to terminal STP jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
114	Ludhiana	ULB Outlet		—	Satsang Ghar Near Tibba Road Haibowal (30.918341,75.888592)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
115	Ludhiana	ULB Outlet		—	Geeta Nagar Ramesh Nagar (30.918461,75.890264)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
116	Ludhiana	ULB Outlet		—	Geeta Nagar Ramesh Nagar(30.918465,75.890576)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
117	Ludhiana	ULB Outlet		—	Geeta Nagar Ramesh Nagar(30.918592,75.891512)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
118	Ludhiana	ULB Outlet		—	Geeta Nagar Ramesh Nagar(30.918668,75.892326)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
119	Ludhiana	ULB Outlet		—	Geeta Nagar Ramesh Nagar (30.918688,75.893198)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
120	Ludhiana	ULB Outlet		—	Geeta Nagar Ramesh Nagar (30.918716,75.893421)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
121	Ludhiana	ULB Outlet		—	Sector 32 A Ludhiana (30.918877,75.89443)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
122	Ludhiana	ULB Outlet		—	Sector 32 A Ludhiana (30.918863,75.894469)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
123	Ludhiana	ULB Outlet		—	New Vijay Nagar Ramesh Nagar (30.919306,75.898803)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
124	Ludhiana	ULB Outlet		—	Puneet Nagar(30.920228,75.912841)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
125	Ludhiana	ULB Outlet		—	Puneet Nagar (30.92032,75.913225)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
126	Ludhiana	ULB Outlet		—	Puneet Nagar (30.920333,75.913208)	Yes	Outlet closed. It has been connected to terminal STP Jamalpur.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
127	Ludhiana	ULB Outlet		—	Kapil Park Haibowal Kalan (30.920865,75.799441)	Yes	Outlet closed. It has been connected to terminal STP Balloke.	It has been connected to terminal STP. The discharge of STP is into Buddha Dariya.	NA	-
128	Ludhiana	ULB Outlet		—	Joshinagar Haibowal Kalan (30.916982,75.816942)	Yes	Outlet closed. It has been connected to terminal STP Balloke.	Permanently closed.	NA	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
129	Ludhiana	ULB Outlet		—	Haibowal Main road joshinagar Haibowal Kalan (30.917187,75.818517)	Yes	Outlet closed. It has been connected to terminal STP Balloke.	Permanently closed.	NA	-
130	Sangrur	ULB Lehragaga	Lehragaga Ditch Drain	6000	29.933187 75.799833	YES	The drinch drain has been newly constructed. The city's wastewater does not flow through any place in it. A 5 MLD sewage treatment plant has been set up to treat the city's wastewater. Through this, the sewage water is treated and given to agriculture for irrigation and the remaining treated water is poured into the drinch drain.	The drinch drain has been newly constructed. The city's wastewater does not flow through any place in it. A 5 MLD sewage treatment plant has been set up to treat the city's wastewater. Through this, the sewage water is treated and given to agriculture for irrigation and the remaining treated water is poured into the drinch drain.	Not applicable	-
131	Sangrur	ULB Lehragaga	Lehragaga Ditch Drain	8000	29.937463 75.799825	YES	The drinch drain has been newly constructed. The city's wastewater does not flow through any place in it. A 5 MLD sewage treatment plant has been set up to treat the city's wastewater. Through this, the sewage water is treated and given to agriculture for irrigation and the remaining treated water is poured into the drinch drain.	The drinch drain has been newly constructed. The city's wastewater does not flow through any place in it. A 5 MLD sewage treatment plant has been set up to treat the city's wastewater. Through this, the sewage water is treated and given to agriculture for irrigation and the remaining treated water is poured into the drinch drain.	Not applicable	-
132	Sangrur	ULB Lehragaga	Lehragaga Ditch Drain	13000	29.943893 75.811045	YES	The drinch drain has been newly constructed. The city's wastewater does not flow through any place in it. A 5 MLD sewage treatment plant has been set up to treat the city's wastewater. Through this, the sewage water is treated and given to agriculture for irrigation and the remaining treated water is poured into the drinch drain.	The drinch drain has been newly constructed. The city's wastewater does not flow through any place in it. A 5 MLD sewage treatment plant has been set up to treat the city's wastewater. Through this, the sewage water is treated and given to agriculture for irrigation and the remaining treated water is poured into the drinch drain.	Not applicable	-
133	Malerkotla	waste water discharge by MC Malerkotla	Upper Lissara Drain	30.50333 75.871022	224000 and 231500 and 237200	Yes	Thapar model treatment plant	Disposed in drain after treated with Thapar Model treatment plant	-	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
134	SAS Nagar	(ULB) Fauji Colony (banur)	Banur Drain	—	No pollution source at site till d/s point located at (30.570069,76.701789)	Yes	No outlet was found at location mentioned earlier	No outlet was found at location mentioned earlier	Pollution sources have been removed	No pollution source at stretch of Banur Drain from Fauji Colony.
135	SAS Nagar	(ULB) Hansa Industrial Park, Derabassi	Jhirmal Nadi	—	No point source at site. Drain only contains stagnant water from rains. Further, there are outlets for storm water only. (30.581942,76.891476)	Yes	Source eleminated and the wastewater upstream industries are being treated respective industries in ETP	Onto plantation by respective indsutries	Pollution sources have been removed	Yes. No discharge is being done at site. Only rainwater runoff is observed at site.
136	Moga	ULB	Badhni Drain	50370-6175067850-68250	30.67375, 75.296438	YES	STP is under stablization	Into drain after treatment	N/A	-
137	Moga	ULB	Moga	14800-131500-139400-149800-103800-117400-127600-96468-86000-81650	30.743402, 75.024899	yes	STP is under stablization	Into drain after treatment	N/A	-

District wise information of closed water pollution sources relating to Dairy Wastewater

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
1	Amritsar	Dairy Waste	Dhing Nangal Drain	5300	NA	Yes	The Dairy has been Closed	Closed	NA	-
2	Amritsar	Dairy Waste		5300	NA	Yes	Repeated Entry	Repeated Entry	NA	-
3	Amritsar	Dairy Waste	Gumtala Drain	4095	NA	Yes	The Dairy has been Closed	Closed	NA	-
4	Amritsar	Dairy Waste	Gumtala Drain	10000	NA	Yes	The Dairy has been Closed	Closed	NA	-
5	Amritsar	Dairy Waste	Gumtala Drain	10000	NA	Yes	Repeated Entry	Repeated Entry	NA	-
6	Amritsar	Dairy Waste	Gumtala Drain	10000	NA	Yes	Repeated Entry	Repeated Entry	NA	-
7	Amritsar	Dairy Waste	Gumtala Drain	10000	NA	Yes	Repeated Entry	Repeated Entry	NA	-
8	Amritsar	Dairy Waste	Gumtala Drain	10000	NA	Yes	Repeated Entry	Repeated Entry	NA	-
9	Amritsar	Dairy Waste	Gumtala Drain	10200	NA	Yes	The Dairy has been Closed	Closed	NA	-
10	Amritsar	Dairy Waste	Gumtala Drain	16815	NA	Yes	The Dairy has been Closed	Closed	NA	-
11	Amritsar	Dairy Waste	Gumtala Drain	16872	NA	Yes	The Dairy has been Closed	Closed	NA	-
12	Amritsar	Dairy Waste	Gumtala Drain	16910	NA	Yes	The Dairy has been Closed	Closed	NA	-
13	Amritsar	Dairy Waste	Gumtala Drain	16973	NA	Yes	The Dairy has been Closed	Closed	NA	-
14	Amritsar	Dairy Waste	Gumtala Drain	17000	NA	Yes	The Dairy has been Closed	Closed	NA	-
15	Amritsar	Dairy Waste	Gumtala Drain	18745	NA	Yes	The Dairy has been Closed	Closed	NA	-
16	Amritsar	Dairy Waste	HMT Drain	51000	NA	Yes	The Dairy has been Closed	Closed	NA	-
17	Amritsar	Dairy Waste	HMT Drain	4500	NA	Yes	The Dairy has been Closed	Closed	NA	-
18	Amritsar	Dairy Waste	HMT Drain	50900	NA	Yes	The Dairy has been Closed	Closed	NA	-
19	Amritsar	Dairy Waste	HMT Drain	52000	NA	Yes	The Dairy has been Closed	Closed	NA	-
20	Amritsar	Dairy Waste	HMT Drain	5510	NA	Yes	The Dairy has been Closed	Closed	NA	-
21	Amritsar	Dairy Waste	HMT Drain	5600	NA	Yes	The Dairy has been Closed	Closed	NA	-
22	Amritsar	Dairy Waste	HMT Drain	5845	NA	Yes	The Dairy has been Closed	Closed	NA	-
23	Amritsar	Dairy Waste	HMT Drain	5880	NA	Yes	The Dairy has been Closed	Closed	NA	-
24	Amritsar	Dairy Waste	HMT Drain	8000	NA	Yes	The Dairy has been Closed	Closed	NA	-
25	Amritsar	Dairy Waste	HMT Drain	8375	NA	Yes	The Dairy has been Closed	Closed	NA	-
26	Amritsar	Dairy Waste	HMT Drain	8430	NA	Yes	The Dairy has been Closed	Closed	NA	-
27	Amritsar	Dairy Waste	HMT Drain	10200	NA	Yes	The Dairy has been Closed	Closed	NA	-
28	Amritsar	Dairy Waste	HMT Drain	10382-	NA	Yes	The Dairy has been Closed	Closed	NA	-
29	Amritsar	Dairy Waste	HMT Drain	16560	NA	Yes	The Dairy has been Closed	Closed	NA	-
30	Amritsar	Dairy Waste	HMT Drain	16815	NA	Yes	Repeated Entry	Repeated Entry	NA	-
31	Amritsar	Dairy Waste	HMT Drain	16872	NA	Yes	Repeated Entry	Repeated Entry	NA	-
32	Amritsar	Dairy Waste	HMT Drain	16910	NA	Yes	Repeated Entry	Repeated Entry	NA	-
33	Amritsar	Dairy Waste	HMT Drain	16915	NA	Yes	The Dairy has been Closed	Closed	NA	-
34	Amritsar	Dairy Waste	HMT Drain	16973	NA	Yes	Repeated Entry	Repeated Entry	NA	-
35	Amritsar	Dairy Waste	HMT Drain	17000	NA	Yes	Repeated Entry	Repeated Entry	NA	-
36	Amritsar	Dairy Waste	HMT Drain	18729	NA	Yes	The Dairy has been Closed	Closed	NA	-
37	Amritsar	Dairy Waste	HMT Drain	22877	NA	Yes	The Dairy has been Closed	Closed	NA	-
38	Amritsar	Dairy Waste	HMT Drain	23217	NA	Yes	The Dairy has been Closed	Closed	NA	-
39	Amritsar	Dairy Waste	HMT Drain	26900	NA	Yes	The Dairy has been Closed	Closed	NA	-
40	Amritsar	Dairy Waste	HMT Drain	5300	NA	Yes	The Dairy has been Closed	Closed	NA	-
41	Amritsar	Dairy Waste	HMT Drain	7980	NA	Yes	The Dairy has been Closed	Closed	NA	-
42	Amritsar	Dairy Waste	HMT Drain	8445	NA	Yes	The Dairy has been Closed	Closed	NA	-
43	Amritsar	Dairy Waste	HMT Drain	16550	NA	Yes	The Dairy has been Closed	Closed	NA	-
44	Amritsar	Dairy Waste	HMT Drain	16600	NA	Yes	The Dairy has been Closed	Closed	NA	-
45	Amritsar	Dairy Waste	HMT Drain	16650	NA	Yes	The Dairy has been Closed	Closed	NA	-
46	Amritsar	Dairy Waste	HMT Drain	22700	NA	Yes	The Dairy has been Closed	Closed	NA	-
47	Amritsar	Dairy Waste	HMT Drain	23348	NA	Yes	The Dairy has been Closed	Closed	NA	-
48	Amritsar	Dairy Waste	HMT Drain	24500	NA	Yes	The Dairy has been Closed	Closed	NA	-
49	Amritsar	Dairy Waste	HMT Drain	10100	NA	Yes	The Dairy has been Closed	Closed	NA	-

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50	Amritsar	Dairy Waste	HMT Drain	10832	NA	Yes	The Dairy has been Closed	Closed	NA	-
51	Amritsar	Dairy Waste	HMT Drain	10902	NA	Yes	The Dairy has been Closed	Closed	NA	-
52	Amritsar	Dairy Waste	HMT Drain	11240	NA	Yes	The Dairy has been Closed	Closed	NA	-
53	Amritsar	Dairy Waste	HMT Drain	12000	NA	Yes	The Dairy has been Closed	Closed	NA	-
54	Amritsar	Dairy Waste	HMT Drain	13925	NA	Yes	The Dairy has been Closed	Closed	NA	-
55	Amritsar	Dairy Waste	HMT Drain	13950	NA	Yes	The Dairy has been Closed	Closed	NA	-
56	Amritsar	Dairy Waste	HMT Drain	14000	NA	Yes	The Dairy has been Closed	Closed	NA	-
57	Amritsar	Dairy Waste	HMT Drain	14010	NA	Yes	The Dairy has been Closed	Closed	NA	-
58	Amritsar	Dairy Waste	HMT Drain	14080	NA	Yes	The Dairy has been Closed	Closed	NA	-
59	Amritsar	Dairy Waste	HMT Drain	14145	NA	Yes	The Dairy has been Closed	Closed	NA	-
60	Amritsar	Dairy Waste	HMT Drain	14165	NA	Yes	The Dairy has been Closed	Closed	NA	-
61	Amritsar	Dairy Waste	HMT Drain	14190	NA	Yes	The Dairy has been Closed	Closed	NA	-
62	Amritsar	Dairy Waste	HMT Drain	14220	NA	Yes	The Dairy has been Closed	Closed	NA	-
63	Amritsar	Dairy Waste	HMT Drain	14235	NA	Yes	The Dairy has been Closed	Closed	NA	-
64	Amritsar	Dairy Waste	HMT Drain	10000	NA	Yes	The Dairy has been Closed	Closed	NA	-
65	Amritsar	Dairy Waste	HMT Drain	10070	NA	Yes	The Dairy has been Closed	Closed	NA	-
66	Amritsar	Dairy Waste	HMT Drain	10075	NA	Yes	The Dairy has been Closed	Closed	NA	-
67	Amritsar	Dairy Waste	HMT Drain	10110	NA	Yes	The Dairy has been Closed	Closed	NA	-
68	Amritsar	Dairy Waste	HMT Drain	10120	NA	Yes	The Dairy has been Closed	Closed	NA	-
69	Amritsar	Dairy Waste	HMT Drain	10140	NA	Yes	The Dairy has been Closed	Closed	NA	-
70	Amritsar	Dairy Waste	HMT Drain	10170	NA	Yes	The Dairy has been Closed	Closed	NA	-
71	Amritsar	Dairy Waste	HMT Drain	10205	NA	Yes	The Dairy has been Closed	Closed	NA	-
72	Amritsar	Dairy Waste	HMT Drain	10310	NA	Yes	The Dairy has been Closed	Closed	NA	-
73	Amritsar	Dairy Waste	HMT Drain	10335	NA	Yes	The Dairy has been Closed	Closed	NA	-
74	Amritsar	Dairy Waste	HMT Drain	10735	NA	Yes	The Dairy has been Closed	Closed	NA	-
75	Amritsar	Dairy Waste	HMT Drain	10755	NA	Yes	The Dairy has been Closed	Closed	NA	-
76	Amritsar	Dairy Waste	HMT Drain	12520	NA	Yes	The Dairy has been Closed	Closed	NA	-
77	Amritsar	Dairy Waste	HMT Drain	19089	NA	Yes	The Dairy has been Closed	Closed	NA	-
78	Amritsar	Dairy Waste	HMT Drain	35130	NA	Yes	The Dairy has been Closed	Closed	NA	-
79	Amritsar	Dairy Waste	HMT Drain	52210	NA	Yes	The Dairy has been Closed	Closed	NA	-
80	Amritsar	Dairy Waste	HMT Drain	55915	NA	Yes	The Dairy has been Closed	Closed	NA	-
81	Amritsar	Dairy Waste	HMT Drain	56000	NA	Yes	The Dairy has been Closed	Closed	NA	-
82	Amritsar	Dairy Waste	HMT Drain	10090	NA	Yes	The Dairy has been Closed	Closed	NA	-
83	Amritsar	Dairy Waste	Tung Dhab Drain	28818	NA	Yes	The Dairy has been Closed	Closed	NA	-
84	Amritsar	Dairy Waste	Tung Dhab Drain	28834	NA	Yes	The Dairy has been Closed	Closed	NA	-
85	Amritsar	Dairy Waste	Tung Dhab Drain	28927	NA	Yes	The Dairy has been Closed	Closed	NA	-
86	Amritsar	Dairy Waste	Tung Dhab Drain	33080	NA	Yes	The Dairy has been Closed	Closed	NA	-
87	Amritsar	Dairy Waste	Tung Dhab Drain	34435	NA	Yes	Repeated Entry	Repeated Entry	NA	-
88	Amritsar	Dairy Waste	Tung Dhab Drain	43513	NA	Yes	The Dairy has been Closed	Closed	NA	-
89	Amritsar	Dairy Waste	Tung Dhab Drain	48455	NA	Yes	The Dairy has been Closed	Closed	NA	-
90	Amritsar	Dairy Waste	Tung Dhab Drain	48665	NA	Yes	The Dairy has been Closed	Closed	NA	-
91	Amritsar	Dairy Waste	Tung Dhab Drain	48760	NA	Yes	The Dairy has been Closed	Closed	NA	-

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92	Amritsar	Dairy Waste	Tung Dhab Drain	24100	NA	Yes	The Dairy has been Closed	Closed	NA	-
93	Amritsar	Dairy Waste	Tung Dhab Drain	24100	NA	Yes	Repeated Entry	Repeated Entry	NA	-
94	Amritsar	Dairy Waste	Tung Dhab Drain	24100	NA	Yes	Repeated Entry	Repeated Entry	NA	-
95	Amritsar	Dairy Waste	Tung Dhab Drain	24100	NA	Yes	Repeated Entry	Repeated Entry	NA	-
96	Amritsar	Dairy Waste	Tung Dhab Drain	24100	NA	Yes	Repeated Entry	Repeated Entry	NA	-
97	Amritsar	Dairy Waste	Tung Dhab Drain	26038	NA	Yes	The Dairy has been Closed	Closed	NA	-
98	Amritsar	Dairy Waste	Tung Dhab Drain	26053	NA	Yes	The Dairy has been Closed	Closed	NA	-
99	Amritsar	Dairy Waste	Tung Dhab Drain	26740	NA	Yes	The Dairy has been Closed	Closed	NA	-
100	Amritsar	Dairy Waste	Tung Dhab Drain	26810	NA	Yes	The Dairy has been Closed	Closed	NA	-
101	Amritsar	Dairy Waste	Tung Dhab Drain	26810	NA	Yes	Repeated Entry	Repeated Entry	NA	-
102	Amritsar	Dairy Waste	Tung Dhab Drain	26830	NA	Yes	The Dairy has been Closed	Closed	NA	-
103	Amritsar	Dairy Waste	Tung Dhab Drain	26870	NA	Yes	Repeated Entry	Repeated Entry	NA	-
104	Amritsar	Dairy Waste	Tung Dhab Drain	26905	NA	Yes	The Dairy has been Closed	Closed	NA	-
105	Amritsar	Dairy Waste	Tung Dhab Drain	28410	NA	Yes	Repeated Entry	Repeated Entry	NA	-
106	Amritsar	Dairy Waste	Tung Dhab Drain	28410	NA	Yes	The Dairy has been Closed	Closed	NA	-
107	Amritsar	Dairy Waste	Tung Dhab Drain	28616	NA	Yes	The Dairy has been Closed	Closed	NA	-
108	Amritsar	Dairy Waste	Tung Dhab Drain	28700	NA	Yes	The Dairy has been Closed	Closed	NA	-
109	Amritsar	Dairy Waste	Tung Dhab Drain	28727	NA	Yes	Repeated Entry	Repeated Entry	NA	-
110	Amritsar	Dairy Waste	Tung Dhab Drain	28818	NA	Yes	The Dairy has been Closed	Closed	NA	-
111	Amritsar	Dairy Waste	Tung Dhab Drain	28834	NA	Yes	The Dairy has been Closed	Closed	NA	-
112	Amritsar	Dairy Waste	Tung Dhab Drain	29200	NA	Yes	The Dairy has been Closed	Closed	NA	-
113	Amritsar	Dairy Waste	Tung Dhab Drain	29264	NA	Yes	The Dairy has been Closed	Closed	NA	-
114	Amritsar	Dairy Waste	Tung Dhab Drain	29295	NA	Yes	Repeated Entry	Repeated Entry	NA	-
115	Amritsar	Dairy Waste	Tung Dhab Drain	29295	NA	Yes	Repeated Entry	Repeated Entry	NA	-
116	Amritsar	Dairy Waste	Tung Dhab Drain	29295	NA	Yes	Repeated Entry	Repeated Entry	NA	-
117	Amritsar	Dairy Waste	Tung Dhab Drain	29295	NA	Yes	Repeated Entry	Repeated Entry	NA	-

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118	Amritsar	Dairy Waste	Tung Dhab Drain	29360	NA	Yes	The Dairy has been Closed	Closed	NA	-
119	Amritsar	Dairy Waste	Tung Dhab Drain	33085	NA	Yes	The Dairy has been Closed	Closed	NA	-
120	Amritsar	Dairy Waste	Tung Dhab Drain	34115	NA	Yes	The Dairy has been Closed	Closed	NA	-
121	Amritsar	Dairy Waste	Tung Dhab Drain	34365	NA	Yes	The Dairy has been Closed	Closed	NA	-
122	Amritsar	Dairy Waste	Tung Dhab Drain	38853	NA	Yes	Repeated Entry	Repeated Entry	NA	-
123	Amritsar	Dairy Waste	Tung Dhab Drain	38928	NA	Yes	The Dairy has been Closed	Closed	NA	-
124	Amritsar	Dairy Waste	Tung Dhab Drain	38928	NA	Yes	Repeated Entry	Repeated Entry	NA	-
125	Amritsar	Dairy Waste	Tung Dhab Drain	39540	NA	Yes	The Dairy has been Closed	Closed	NA	-
126	Amritsar	Dairy Waste	Tung Dhab Drain	48338	NA	Yes	The Dairy has been Closed	Closed	NA	-
127	Amritsar	Dairy Waste	Tung Dhab Drain	48455	NA	Yes	The Dairy has been Closed	Closed	NA	-
128	Amritsar	Dairy Waste	Tung Dhab Drain	48710	NA	Yes	The Dairy has been Closed	Closed	NA	-
129	Amritsar	Dairy Waste	Tung Dhab Drain	48820	NA	Yes	The Dairy has been Closed	Closed	NA	-
130	Amritsar	Dairy Waste	Tung Dhab Drain	48820	NA	Yes	Repeated Entry	Repeated Entry	NA	-
131	Amritsar	Dairy Waste	Verka Drain	17096	NA	Yes	The Dairy has been Closed	Closed	NA	-
132	Amritsar	Dairy Waste	Verka Drain	17296	NA	Yes	The Dairy has been Closed	Closed	NA	-
133	Amritsar	Dairy Waste	Verka Drain	17785	NA	Yes	The Dairy has been Closed	Closed	NA	-
134	Amritsar	Dairy Waste	Verka Drain	17830	NA	Yes	The Dairy has been Closed	Closed	NA	-
135	Amritsar	Dairy Waste	Verka Drain	17196	NA	Yes	The Dairy has been Closed	Closed	NA	-
136	Amritsar	Dairy Waste	Verka Drain	17296	NA	Yes	The Dairy has been Closed	Closed	NA	-
137	Amritsar	Dairy Waste	Verka Drain	17830	NA	Yes	The Dairy has been Closed	Closed	NA	-
138	Jalandhar	Dairy Waste	Kala Singha Drain	107450	31.326045°, 75.520302°	Yes	As informed by the JE, Water Resources Department, Earlier there was dairy at the site, Now, which has been closed.	Closed	-	As informed by the JE, Water Resources Department, Earlier there was dairy at the site, Now, which has been closed. https://drive.google.com/open?id=1buN-_V5w9En8H-uye6BMcG0TpAAg88&usp=drive_fs
139	Jalandhar	Dairy Waste	Kala Singha Drain	107750	31.325807°, 75.51871°	Yes	As informed by the JE, Water Resources Department, Earlier there was dairy at the site, Now, which has been closed.	Closed	-	As informed by the JE, Water Resources Department, Earlier there was dairy at the site, Now, which has been closed. https://drive.google.com/open?id=1lubDs8QFLNb0MM7SNDdBx-rkKWyHhud8&usp=drive_fs

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140	Ludhiana	Dairy waste	Budda Dariya	31200	https://docs.google.com/document/d/1_ycl4WEOUQjel637Xr6laCsfU4qMPbcaGbEBRXtN7Fs/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
141	Ludhiana	Dairy waste	Budda Dariya	31300	https://docs.google.com/document/d/1MuLv2ljiYxDomXUh3J_TeESGyQHzd2m1xnoutl-gLjQ/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
142	Ludhiana	Dairy waste	Budda Dariya	31450	https://docs.google.com/document/d/11UhfWiG7SzDCqnYb-UujEnTLNVgmr4qctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
143	Ludhiana	Dairy waste	Budda Dariya u/s	31450	https://docs.google.com/document/d/11UhfWiG7SzDCqnYb-UujEnTLNVgmr4qctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
144	Ludhiana	Dairy waste	Budda Dariya u/s	31450	https://docs.google.com/document/d/11UhfWiG7SzDCqnYb-UujEnTLNVgmr4qctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
145	Ludhiana	Dairy waste	Budda Dariya u/s	31450	https://docs.google.com/document/d/11UhfWiG7SzDCqnYb-UujEnTLNVgmr4qctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
146	Ludhiana	Dairy waste	Budda Dariya u/s	31450	https://docs.google.com/document/d/11UhfWiG7SzDCqnYb-UujEnTLNVgmr4qctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
147	Ludhiana	Dairy waste	Budda Dariya u/s	32200	https://docs.google.com/document/d/11UhfWiG7SzDCqnYb-UujEnTLNVgmr4qctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.

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148	Ludhiana	Dairy waste	Budda Dariya u/s	32300	https://docs.google.com/document/d/11UhFWiG7SzDCqnYb-UujEnTLNVqmr4gctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
149	Ludhiana	Dairy waste	Budda Dariya u/s	32350	https://docs.google.com/document/d/11UhFWiG7SzDCqnYb-UujEnTLNVqmr4gctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
150	Ludhiana	Dairy waste	Budda Dariya u/s	32400	https://docs.google.com/document/d/11UhFWiG7SzDCqnYb-UujEnTLNVqmr4gctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
151	Ludhiana	Dairy waste	Budda Dariya u/s	32600	https://docs.google.com/document/d/11UhFWiG7SzDCqnYb-UujEnTLNVqmr4gctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
152	Ludhiana	Dairy waste	Budda Dariya u/s	32800	https://docs.google.com/document/d/11UhFWiG7SzDCqnYb-UujEnTLNVqmr4gctNAyEDhMFf0/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
153	Ludhiana	Dairy waste	Budda Dariya	31800	https://docs.google.com/document/d/1X5nmicZqdHMPvMQJWxOHkp3KlIglSnW5mI5albCY2l/edit?usp=sharing	Yes	The Seechewal Model has been adopted for the treatment of dairy waste water.	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.	pollution source has been removed	Wastewater generated from the dairies is being utilized for agricultural/irrigation purposes.Hence, the final disposal of dairy wastewater is through its use in agricultural fields.
154	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਿਰਤਾ ਡੇਅਰੀ (ਧਰਮਵੀਰ) ਿਖੰਡ ਰੂਪੜੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
155	Ludhiana	Dairy Waste	Buddha Dariya	—	ਨਰੋਡ ਪਾਕਾ (ਟੋਨੀ) ਭਰਮ ਪਾਕਾ ਡੇਅਰੀ ਭੁਖੜੀ ਖੁਰਦ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
156	Ludhiana	Dairy Waste	Buddha Dariya	—	ਲਵ ਖੰਡਾ ਡੇਅਰੀ ਫਾਰਮ, ਿਖੰਡ ਰੂਪੜੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	400 If yes, present treatment utilaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
157	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਰਗ ਡੇਅਰੀ ਫਾਰਮ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
158	Ludhiana	Dairy Waste	Buddha Dariya	—	ਗੁਰਜੋਤ ਿਸੰਘ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
159	Ludhiana	Dairy Waste	Buddha Dariya	—	ਜਲਦੀਪ ਡੇਅਰੀ ਫਾਰਮ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
160	Ludhiana	Dairy Waste	Buddha Dariya	—	ਅਰੋੜਾ ਡੇਅਰੀ ਫਾਰਮ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, (ਰਾਈਟ ਸਾਈਡ) ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
161	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਾਕੇਸ਼ ਕੁਮਾਰ ਡੇਅਰੀ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ (ਰਾਈਟ ਸਾਈਡ)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
162	Ludhiana	Dairy Waste	Buddha Dariya	—	ਹੀਰਾ ਲਾਲ ਡੇਅਰੀ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ (ਰਾਈਟ ਸਾਈਡ)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
163	Ludhiana	Dairy Waste	Buddha Dariya	—	ਬੇਬੀ ਡੇਅਰੀ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
164	Ludhiana	Dairy Waste	Buddha Dariya	—	ਅੰਮ੍ਰਿਤ ਪਾਲ ਡੇਅਰੀ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ (9056912346)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
165	Ludhiana	Dairy Waste	Buddha Dariya	—	ਗੁਰਚਰਨ ਡੇਅਰੀ ਫਾਰਮ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
166	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਵੀਕ ਤ ਪੰਤਰ ਰਾਮਗੜ੍ਹ ਡੇਅਰੀ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
167	Ludhiana	Dairy Waste	Buddha Dariya	—	ਿਬੱਲਾ ਡੇਅਰੀ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
168	Ludhiana	Dairy Waste	Buddha Dariya	—	ਹਰਿਜੰਦਰ ਿਸੰਘ ਡੇਅਰੀ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
169	Ludhiana	Dairy Waste	Buddha Dariya	—	ਕਾਕਾ ਡੇਅਰੀ, ਿੰਪੰਡ ਭੂਖਣੀ ਖੁਰਦ, ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
170	Ludhiana	Dairy Waste	Buddha Dariya	—	ਲਾਲੀ ਗਰੇਵਾਲ ਡੇਅਰੀ, ਖਿੱਖਾਸੀ ਕਲ , ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
171	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸ਼ਾਂਚਨ ਲਾਲੀ ਡੇਅਰੀ, ਖਿੱਖਾਸੀ ਕਲ , ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
172	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਿਸਪਾਈਆ ਗੁਜਰ ਡੇਅਰੀ ਖਿੱਖਾਸੀ ਕਲ , ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
173	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਿਸਰਾਜਦੀਨ (ਰਾਜੂ) ਡੇਅਰੀ ਖਿੱਖਾਸੀ ਕਲ , ਲੁਧਿਆਣਾ ।	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
174	Ludhiana	Dairy Waste	Buddha Dariya	—	ਭੈਂਕਤ ਅਲੀ ਅਤੇ ਛਿਡੇਅਰੀ ਖਾਸੀ ਕਲ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
175	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਮੀ ਗੰਜਰ ਡੇਅਰੀ, ਖਿੱਖਾਸੀ ਕਲ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
176	Ludhiana	Dairy Waste	Buddha Dariya	—	ਕਰਨ ਪੰਤਰ ਵਿਜੇ ਸਿੰਘ ਖੇਡ 7009630270	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
177	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸੋਨੇ ਪੰਤਰ ਖੇਡ ਡੇਅਰੀ, ਖਾਸੀ ਕਲ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
178	Ludhiana	Dairy Waste	Buddha Dariya	—	ਗੁਰਬਚਨ ਸਿੰਘ ਡੇਅਰੀ , ਖਾਸੀ ਕਲ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
179	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਲੀ ਡੇਅਰੀ, ਖਿੱਖਾਸੀ ਕਲ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
180	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਤਪਾਲ ਸਿੰਘ ਪੰਤਰ ਮੈਥੀ ਰਾਮ ਡੇਅਰੀ, ਨਵਾਂ ਸਰਪੰਚ ਕਲੋਨੀ ਖਿੱਖਾਸੀ ਕਲ (ਰਾਈਟ ਸਾਈਡ) 9877637925	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
181	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਰਗ ਪੰਤਰ ਰਾਮ ਕਰਮ ਸਰਪੰਚ ਕਲੋਨੀ ਡੇਅਰੀ, (ਰਾਈਟ ਸਾਈਡ) ਤਾਜਪੁਰ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilaziton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
182	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਤਪਾਲ ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ (ਲੇਟ ਸਾਈਡ)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
183	Ludhiana	Dairy Waste	Buddha Dariya	—	ਅਸਵਨੀ ਕੁਮਾਰ ਪ੍ਰੋਤਰ ਪੰਡਤ ਡੇਅਰੀ, ਪਿੰਡ ਭੁੱਲਾਈ (ਲੇਟ ਸਾਈਡ)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
184	Ludhiana	Dairy Waste	Buddha Dariya	—	ਚਨ ਲਲ ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ (ਰਾਈਟ ਸਾਈਡ)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
185	Ludhiana	Dairy Waste	Buddha Dariya	—	ਹਰਮਿਤ ਰਾਏ (ਭਗਤ) ਪ੍ਰੋਤਰ ਪੰਡਤ ਡੇਅਰੀ, ਪਿੰਡ ਭੁੱਲਾਈ (ਰਾਈਟ ਸਾਈਡ)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
186	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਵੀ ਨਾਥ ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ (ਰਾਈਟ ਸਾਈਡ)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
187	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਾਮ ਸਵਰੂਪ ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
188	Ludhiana	Dairy Waste	Buddha Dariya	—	ਬਲਦੇਵ ਡੇਅਰੀ, ਪਿੰਡ ਭੁੱਲਾਈ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
189	Ludhiana	Dairy Waste	Buddha Dariya	—	ਹਰਦੇਵ ਸਿੰਘ (ਰਾਜੂ) ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
190	Ludhiana	Dairy Waste	Buddha Dariya	—	ਪਵਨ ਕੁਮਾਰ ਪ੍ਰੋਤਰ ਹਰੀ ਚੰਦ ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
191	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸਮਸ਼ੇਰ ਸਿੰਘ (ਸੰਮੀ) ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
192	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸ਼ਰਿਫ ਖਾਨ ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
193	Ludhiana	Dairy Waste	Buddha Dariya	—	ਮੋਨੂੰ ਗੋਜਰ ਪ੍ਰੋਤਰ ਪੰਡਤ ਰਾਜ ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
194	Ludhiana	Dairy Waste	Buddha Dariya	—	ਗਿਆਨ ਚੰਦ ਡੇਅਰੀ, ਪਿੰਡ ਤਾਜਪੁਰ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
195	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਜੇਸ਼ ਡੇਅਰੀ, ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
196	Ludhiana	Dairy Waste	Buddha Dariya	—	ਦੀਪਕ ਪੈਂਤਰ ਆਠੇਕਾ ਿੰਪੰਡ ਡੇਅਰੀ, ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
197	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰੋਮੀ ਮਲਹੋਤਰਾ, ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
198	Ludhiana	Dairy Waste	Buddha Dariya	—	ਮੰਗਲ ਿੰਸੰਘ ਪੈਂਤਰ ਧਰਮਾਚਰਨ (ਧਰਮਾ ਡੇਅਰੀ), ਗੁਰੂ ਨਾਨਕ ਨਗਰ ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
199	Ludhiana	Dairy Waste	Buddha Dariya	—	ਬੰਦੀ ਡੇਅਰੀ, ਿੰਪੰਡ ਿੰਘਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
200	Ludhiana	Dairy Waste	Buddha Dariya	—	ਿੰਸੰਘ (ਿੰਦਕਾਸ ਆਰੂਜਾ), ਪੈਂਤਰ ਧਰਮਾ ਡੇਅਰੀ, ਗੁਰੂ ਨਾਨਕ ਨਗਰ ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
201	Ludhiana	Dairy Waste	Buddha Dariya	—	ਪੰਮਾ ਅਤੇ ਹੀਰੇ ਡੇਅਰੀ ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
202	Ludhiana	Dairy Waste	Buddha Dariya	—	ਮੰਗਲ ਿੰਸੰਘ ਡੇਅਰੀ, ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
203	Ludhiana	Dairy Waste	Buddha Dariya	—	ਜਸਵਿੰਦਰ ਿੰਸੰਘ ਪੈਂਤਰ ਧਰਮਾਚਰਨ (ਧਰਮਾ ਡੇਅਰੀ), ਗੁਰੂ ਨਾਨਕ ਨਗਰ ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
204	Ludhiana	Dairy Waste	Buddha Dariya	—	ਿੰਦਰੂ ਗੋਂਜਰ, ਿੰਪੰਡ ਿੰਘਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
205	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸੁਜਿੰਦਰ ਕੁਮਾਰ ਿੰਪੰਡ ਿੰਘਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
206	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਮੇਸ਼ ਗੋਂਜਰ (ਡੋਨ) ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
207	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਵੀ ਪਿੰਡ ਡੇਅਰੀ, ਿੰਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
208	Ludhiana	Dairy Waste	Buddha Dariya	—	ਬਲਦੇਵ ਡੇਅਰੀ, ਿਪੰਡ ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
209	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਾਜੂ ਭਾਪਾ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
210	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਾਜੂ ਬੇਚਰਾ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
211	Ludhiana	Dairy Waste	Buddha Dariya	—	ਿਸ਼ਦੂ ਚੈਦਰੀ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
212	Ludhiana	Dairy Waste	Buddha Dariya	—	ਗੋਗੀ ਗੁੱਜਰ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
213	Ludhiana	Dairy Waste	Buddha Dariya	—	ਹੇਮਰਾਜ (ਫੋਜੀ) ਪੁੱਤਰ ੈਜਰੰਦ ਐਮ.ਐਸ.ਨਗਰ ਭਾਮੀਆ ਕਲ 9855707195	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
214	Ludhiana	Dairy Waste	Buddha Dariya	—	ਮਾਤੂ ਗੁੱਜਰ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
215	Ludhiana	Dairy Waste	Buddha Dariya	—	ਦਿਵੰਦਰ ਕੁਮਾਰ ਸਰਮਾ ਡੇਅਰੀ, ਿਪੰਡ ਭਾਮੀਆ ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
216	Ludhiana	Dairy Waste	Buddha Dariya	—	ਗੁਲਸ਼ਨ ਚੋਪੜਾ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
217	Ludhiana	Dairy Waste	Buddha Dariya	—	ਮੰਗਾ ਸਿਰਗਲ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
218	Ludhiana	Dairy Waste	Buddha Dariya	—	ਸੋਨੂ ਗਵਾਲਾ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
219	Ludhiana	Dairy Waste	Buddha Dariya	—	ਹਿਲਤ ਗਵਾਲਾ ਡੇਅਰੀ, ਿਪੰਡ ਭਾਮੀਆ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
220	Ludhiana	Dairy Waste	Buddha Dariya	—	ਇੰਦਰਜੀਤ ਡੇਅਰੀ, ਿਥਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
221	Ludhiana	Dairy Waste	Buddha Dariya	—	ਬਾਬਰ ਡੇਅਰੀ, ਪਿੰਡ ਭਾਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
222	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਾਜੂ ਗਵਾਲਾ ਡੇਅਰੀ, ਭਿੰਡਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
223	Ludhiana	Dairy Waste	Buddha Dariya	—	ਮੰਗਾ ਗਵਾਲਾ ਡੇਅਰੀ, ਭਿੰਡਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
224	Ludhiana	Dairy Waste	Buddha Dariya	—	ਗੁਰਚਰਨ ਿਸੰਘ ਡੇਅਰੀ, ਭਿੰਡਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
225	Ludhiana	Dairy Waste	Buddha Dariya	—	ਮਨੀਭ ਗੋਂਜਰ ਪੰਤਰ ਭਗੋਂਜਰ ਡੇਅਰੀ, ਐਮਐਸਨਗਰ ਪਿੰਡ ਭਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
226	Ludhiana	Dairy Waste	Buddha Dariya	—	ਰਾਧੇ ਿਸਆਮ ਡੇਅਰੀ, ਭਿੰਡਾਮੀਆਂ ਕਲਾ, ਲੁਧਿਆਣਾ	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Outlet permanently closed. There is no discharge into Buddha Dariya.	NA	Outlet permanently closed. There is no discharge into Buddha Dariya.
227	Ludhiana	Dairy Waste		—	ਕਾਕਾ ਅਤੇ ਦਰਠਨ ਿਸੰਘ ਪੰਤਰ ਮਸਤਰਾਮ ਿਸੰਘ (ਚਰਨਾ ਡੇਅਰੀ) ਖਾਸੀ ਕਲ (30.932193, 75.94758)	Yes	Outlet permanently closed due to closure of Dairy. There is no discharge into Buddha Dariya.	Permanently closed.	NA	-

District wise information of closed water pollution sources relating to Individuals

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaion mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
1	Amritsar	Individual	Tung Dhab Drain	46155	NA	Yes	The source has been Permanently closed.	Closed	NA	
2	Ludhiana	Individual	Budha Nallah, (City Reach)	55000-100180	https://docs.google.com/document/d/1nS12aoQYBog2LxXy9RSgmXrgR7_d6ohtwFuW2e_NAOI/edit?usp=sharing	yes	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.	The wastewater generated from these sources is now being discharged into the sewerage system.	pollution source has been removed	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.
3	Ludhiana	Individual	Budha Nallah, (City Reach)	55000-100180	https://docs.google.com/document/d/1McSiJEzZA9DRCvz9a8kHuCGu5NRAGFFf_blsGfgU8g/edit?usp=sharing	Yes	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.	The wastewater generated from these sources is now being discharged into the sewerage system.	pollution source has been removed	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.
4	Ludhiana	Individual	Budha Nallah, (City Reach)	55000-100180	https://docs.google.com/document/d/12pJBf6rvkiFfLslr74s6Ak4deO507uCi4CZjX1vXv8E/edit?usp=sharing	Yes	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.	The wastewater generated from these sources is now being discharged into the sewerage system.	pollution source has been removed	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.
5	Ludhiana	Individual	Budha Nallah, (City Reach)	55000-100180	https://docs.google.com/document/d/1oUPteXeWuOA1nd-U-Rfwrmiw25C3v__L7Zx1em2paGM/edit?usp=sharing	yes	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.	The wastewater generated from these sources is now being discharged into the sewerage system.	pollution source has been removed	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.
6	Ludhiana	Individual	Budha Nallah, (City Reach)	55000-100180	https://docs.google.com/document/d/1PkVS0gAe5iMzvNr34oWGg_dXOHy-bpO4gK9VprBXq64/edit?usp=sharing	yes	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.	The wastewater generated from these sources is now being discharged into the sewerage system.	pollution source has been removed	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.
7	Ludhiana	Individual	Budha Nallah, (City Reach)	55000-100180	https://docs.google.com/document/d/1G7-sysvM014spr5WSWmBAFbhXHiELtXVXn0ImnsxU/edit?usp=sharing	yes	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.	The wastewater generated from these sources is now being discharged into the sewerage system.	pollution source has been removed	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
8	Ludhiana	Individual	Budha Nallah, v	55000-100180	https://docs.google.com/document/d/129ZVqkYS2bCCKnS0Cg6ucI0efwYKDbWvq3E4F7Ru-M/edit?usp=sharing	yes	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.	The wastewater generated from these sources is now being discharged into the sewerage system.	pollution source has been removed	The discharge points of the concerned polluting sources have been closed. The wastewater generated from these sources is now being discharged into the sewerage system.
9	Ludhiana	Individual	Buddha Dariya	—	ਗੁਰੂ ਨਾਨਕ ਨਗਰ , ਆਕਲ (colonies)	Yes	No outlet. Now, connected with STP 225 MLD Jamalpur.	No outlet. Now, connected with STP 225 MLD Jamalpur. The final disposal of STP 225 MLD is into Buddha Dariya.	NA	No outlet. Now, connected with STP 225 MLD Jamalpur.
10	Ludhiana	Individual	Buddha Dariya	—	ਸਰਪੰਚ, ਮੁਖਿਤਆਰ ਬਿਨਗਰ, ਿਪੰਡ ਭਾਮੀਆਂ ਕਲੂਧਿਆਣਾ	Yes	No outlet. Now, connected with STP 225 MLD Jamalpur.	No outlet. Now, connected with STP 225 MLD Jamalpur. The final disposal of STP 225 MLD is into Buddha Dariya.	NA	No outlet. Now, connected with STP 225 MLD Jamalpur.
11	Ludhiana	Individual	Buddha Dariya	—	ਸਰਪੰਚ, ਹਰੀਜਨ ਕਲੋਨੀ, ਿਪੰਡ ਭਾਮੀਆਂ ਕਲਾ, ਕੁਧਿਆਣਾ	Yes	No outlet. Now, connected with STP 225 MLD Jamalpur.	No outlet. Now, connected with STP 225 MLD Jamalpur. The final disposal of STP 225 MLD is into Buddha Dariya.	NA	No outlet. Now, connected with STP 225 MLD Jamalpur.
12	Ludhiana	Individual	Buddha Dariya	—	ਸੁਰਜੀਤ ਿਸੰਘ ਤੇ ਪੁੰਘ ਭਾਮੀ ਕਲ	Yes	Permanently closed. Connected with STP 225 MLD Jamalpur.	Permanently closed.	NA	Permanently closed.
13	Ludhiana	Individual	Buddha Dariya	—	ਪ੍ਰਬੰਧਕ, ਗੁਰੂਦੁਆਰਾ ਿਪੰਡ ਸਾਹਿਬ, ਿਪੰਡ ਖਾਸੀ ਕਲ	Yes	Permanently closed. Connected with STP 225 MLD Jamalpur.	Permanently closed.	NA	Permanently closed.
14	Ludhiana	Individual	Buddha Dariya	—	ਮਾਇਆਵਤੀ ਪਤਨੀ ਰਜਿਸਟਰੇਡ ਲਵ ਸਰਪੰਚ ਕਲੋਨੀ ਤਾਜਪੁਰ	Yes	Permanently closed. Connected with STP 225 MLD Jamalpur.	Permanently closed.	NA	Permanently closed.

District wise information of closed water pollution sources relating to Any Other Sources (non-existence sources)

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	If yes, present treatment utilizaiton mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
1	Amritsar	(Any other) Does not Exist	Gumtala Drain	1915	NA	Yes	NA	NA	NA	-
2	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	4739	NA	Yes	NA	NA	NA	-
3	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	11175	NA	Yes	NA	NA	NA	-
4	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	25838	NA	Yes	NA	NA	NA	-
5	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	39674	NA	Yes	NA	NA	NA	-
6	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	42145	NA	Yes	NA	NA	NA	-
7	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	42245	NA	Yes	NA	NA	NA	-
8	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	42700	NA	Yes	NA	NA	NA	-
9	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	43100	NA	Yes	NA	NA	NA	-
10	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	43405	NA	Yes	NA	NA	NA	-
11	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	44810	NA	Yes	NA	NA	NA	-
12	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	44835	NA	Yes	NA	NA	NA	-
13	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	44925	NA	Yes	NA	NA	NA	-
14	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	44970	NA	Yes	NA	NA	NA	-
15	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	44980	NA	Yes	NA	NA	NA	-
16	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	45015	NA	Yes	NA	NA	NA	-
17	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	46780	NA	Yes	NA	NA	NA	-
18	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	47850	NA	Yes	NA	NA	NA	-
19	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	47700	NA	Yes	NA	NA	NA	-
20	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	47890	NA	Yes	NA	NA	NA	-
21	Amritsar	(Any other) Does not Exist	Tung Dhab Drain	47920	NA	Yes	NA	NA	NA	-
22	Amritsar	(Any other) Does not Exist	Verka Drain	7286	NA	Yes	NA	NA	NA	-
23	Amritsar	(Any other) Does not Exist	Verka Drain	8772	NA	Yes	NA	NA	NA	-
24	Amritsar	(Any other) Does not Exist	Verka Drain	9227	NA	Yes	NA	NA	NA	-

Sr. no.	Name of District	Type of Pollution Source (Industrial/ Village Water/ ULB outlet/ Dairy Waste/ Individual/ etc)	Name of the water body affected by the pollution source.	RD of Drains	Location with Geo co-ordinate of pollution source.	Whether Pollution source is removed (Yes/NO)	409 If yes, present treatment utilizaition mechanism after plugging	Final disposal/utilization of treated waste water	If not, timeline/date of closure along with proposed action plan.	Remarks
25	Amritsar	(Any other) Does not Exist	Verka Drain	9377	NA	Yes	NA	NA	NA	-
26	Amritsar	(Any other) Does not Exist	Verka Drain	4315	NA	Yes	NA	NA	NA	-
27	Amritsar	(Any other) Does not Exist	Verka Drain	4360	NA	Yes	NA	NA	NA	-
28	Amritsar	(Any other) Does not Exist	Verka Drain	4755	NA	Yes	NA	NA	NA	-
29	Amritsar	(Any other) Does not Exist	Verka Drain	5080	NA	Yes	NA	NA	NA	-
30	Amritsar	(Any other) Does not Exist	Verka Drain	5300	NA	Yes	NA	NA	NA	-
31	Amritsar	(Any other) Does not Exist	Verka Drain	6795	NA	Yes	NA	NA	NA	-
32	Amritsar	(Any other) Does not Exist	Verka Drain	7964	NA	Yes	NA	NA	NA	-
33	Amritsar	(Any other) Does not Exist	Verka Drain	9440	NA	Yes	NA	NA	NA	-
34	Amritsar	(Any other) Does not Exist	Verka Drain	9585	NA	Yes	NA	NA	NA	-
35	Amritsar	(Any other) Does not Exist	Verka Drain	9560	NA	Yes	NA	NA	NA	-
36	Amritsar	(Any other) Does not Exist	Verka Drain	9620	NA	Yes	NA	NA	NA	-
37	Amritsar	(Any other) Does not Exist	Verka Drain	14315	NA	Yes	NA	NA	NA	-
38	Amritsar	(Any other) Does not Exist	Verka Drain	14330	NA	Yes	NA	NA	NA	-
39	Amritsar	(Any other) Does not Exist	Verka Drain	14350	NA	Yes	NA	NA	NA	-
40	Amritsar	(Any other) Does not Exist	Verka Drain	14502	NA	Yes	NA	NA	NA	-
41	Amritsar	(Any other) Does not Exist	Verka Drain	14520	NA	Yes	NA	NA	NA	-
42	Amritsar	(Any other) Does not Exist	Verka Drain	14665	NA	Yes	NA	NA	NA	-
43	Amritsar	(Any other) Does not Exist	Verka Drain	14805	NA	Yes	NA	NA	NA	-
44	Amritsar	(Any other) Does not Exist	Verka Drain	14895	NA	Yes	NA	NA	NA	-
45	Amritsar	(Any other) Does not Exist	Verka Drain	14995	NA	Yes	NA	NA	NA	-
46	Amritsar	(Any other) Does not Exist	Verka Drain	15045	NA	Yes	NA	NA	NA	-
47	Amritsar	(Any other) Does not Exist	Verka Drain	15120	NA	Yes	NA	NA	NA	-
48	Amritsar	(Any other) Does not Exist	Verka Drain	15285	NA	Yes	NA	NA	NA	-
49	Amritsar	(Any other) Does not Exist	Verka Drain	16005	NA	Yes	NA	NA	NA	-

Government of Punjab
Department of Science Technology & Environment
Directorate of Environment & Climate Change

To,

The Project Director,
National River Conservation Directorate
Department of Water Resources, Ministry of Jal Shakti,
Govt. of India

Letter No. DECC/2026/1123

Date: 21/01/2026

Subject: Submission of updated Action Plans of Polluted River Stretches of Punjab

Respected Sir,

This is in reference your D.O. No. Legal/OA673/2018/NMCG/2019 dated 07.03.2025 addressed to worthy Chief Secretary, Punjab regarding updation of Action Plans of Polluted River Stretches of Punjab & their regular review.

In this regard, it informed that as per the CPCB Report titled "Polluted River Stretches for Restoration of Water Quality, 2025", now only 2 polluted river stretches of Punjab namely River Ghaggar (D/s Parwanoo to D/s Sardulgarh) and River Sutlej (Nangal to Harike Bridge) fall in the category of Priority Class-I.

Accordingly, the Action Plans of above-mentioned 2 Priority I Polluted River Stretches have been updated. These updated Action Plans were approved by River Rejuvenation Committee (RRC) in its meeting held under the Chairmanship of Administrative Secretary, Department of Science Technology and Environment, Govt. of Punjab on 28.10.2025 and by the State Apex Committee (SAC) during its meeting held the Chairmanship of Chief Secretary, Govt. of Punjab on 12.01.2026.

The copies of updated Action Plans are enclosed herewith for your information and record of Ministry of Jal Shakti, Govt. of India, please. The progress of these Action Plans would be reviewed regularly in the forthcoming Meetings of RRC and SAC.


21.1.26
Additional Director

Encls. /As Above

Endst. No. DECC/2026/1124-1126

Date: 21/01/2026

A copy of the above is forwarded to the following for information, please:

- 1) Secretary, Department of Science Technology & Environment, Govt. of Punjab
- 2) Member Secretary, Central Pollution Control Board, New Delhi
- 3) OSD to Chief Secretary, Govt. of Punjab


21.1.26
Additional Director

MGSIPA Complex, Sector 26, Chandigarh-160019, INDIA, Phone No. 0172-2795049
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Action Plan for Clean River Ghaggar



5th March 2019
(Updated July 2025)

**Directorate of Environment and Climate Change,
Department of Science, Technology and Environment,
Government of Punjab**

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Chapter 1 - Introduction

1.1 Punjab – Land of Rivers

1.1.1 The word Punjab is a compound of two Persian words, panj (“five”) and āb (“water”), thus signifying the land of five waters. The erstwhile Punjab State had five rivers namely Beas, Chenab, Jhelum, Ravi, and Sutlej. However, after the partition of India in 1947, only two rivers, the Sutlej and the Beas, lie within Punjab’s territory, while the Ravi flows only along part of its western border.

1.1.2 The rivers in the State have been used as a source of irrigation, drinking purpose especially in southern Punjab, development of hydro-electric projects to meet the energy requirements in the State and various activities including industrial purposes. The rivers have played a significant role in the socio-economic and industrial development of the State.

1.2 Rapid Urbanization and Industrialization – Main cause of River Pollution

1.2.1 The rapid urbanization and industrialization during the last few decades has adversely impacted the environment of the State. The quantum of sewage and sullage generated from the habitation areas has significantly increased and finding its way into natural drains, eventually leading to riverine system of the State. In the rural areas, due to increase in the population, the capacity of most of the ponds has been exhausted due to which this sewage and sullage has also started flowing into the natural drains and finally becoming a part of river waters.

1.2.2 Therefore, the quality of water flowing in the water bodies has deteriorated as these water bodies lack sufficient assimilation capacity for self-purification not only due to increase in the quantum of discharge of untreated sewage/ sullage, but, also due to decrease in the quantum of water in the water bodies owing to construction of check dams on the upstream side.

1.3 About Ghaggar

1.3.1 The Ghaggar, an intermittent, Endorheic river flows only during the monsoon season. The river is known as Ghaggar before the Ottu barrage near Sirsa and as the Hakra downstream of the barrage. The basin is classified in two parts, Bangar and Khadar. The higher area which is not flooded in rainy season is called Bangar and the lower flood-prone area is called Khadar.

1.3.2 It originates in the village Dagshai in the Shivalik Hills of Himachal Pradesh at an elevation of 1,927 metres (6,322 ft) above mean sea level and flows through Punjab and Haryana states into Rajasthan just southwest of Sirsa, Haryana and by the side of Talwara Lake in Rajasthan. From Ottu barrage near Sirsa, Ghaggar feeds two irrigation canals that extend into Rajasthan.

1.3.3 Initially, it receives municipal sewage of various towns located in Himachal Pradesh and Haryana namely Parwanoo, Kalka and Pinjore through Sukhna Nallah merging into Kaushalya river tributary of Ghaggar near Amravati Enclave. Besides, Ghaggar river also receives the sewage of various towns of Haryana including that of Panchkula before entering into the State of Punjab. It enters Punjab near Village Mubarikpur, District Mohali.

- 1.3.4 After passing through District Mohali, District Patiala and District Sangrur, river Ghaggar carrying sewage of some of the towns of Punjab, re-enters State of Haryana and then enters Sardulgarh, District Mansa of Punjab before finally re-entering into Haryana. The total stretch of the river Ghaggar in the state of Punjab is 165 kms.
- 1.3.5 The drains meeting with the river are non-perennial and treated / partially treated / untreated sewage / sullage of some of the cities, towns and villages situated nearby these drains as well as surface run off from fields falling in their catchment area during rainy season is discharged into river Ghaggar directly or indirectly through various drains / choes etc.
- 1.4 **State's past efforts to control pollution in Ghaggar**
- 1.4.1 Keeping in view deterioration in the water quality of Ghaggar, the Government of Punjab (GOP) initiated action in 2008 to identify the sources of its pollution in coordination with Punjab Pollution Control Board (PPCB). Meetings were regularly held under the chairmanship of Chief Minister, Punjab from the year, 2008 onwards. ~~Eight meetings have been held by the higher authorities of the State of Punjab, UT Chandigarh, Haryana, and Himachal Pradesh./*Shall be updated by DECC, being State Level Matter*/~~
- 1.4.2 The State Government is serious to control the pollution in river Ghaggar and the concerned departments have already identified the sources of wastewater falling into river Ghaggar at various towns and cities located in the catchment area of the river. **As of now, out of 31 towns, which are discharging their wastewater into river Ghaggar, a total of 56 STPs were required to be installed, out of which 37 STPs have already been installed, 7 are under installation and remaining 12 are under various stages of planning for establishment.**
- 1.5 **Directions issued by NGT**
- 1.5.1 National Green Tribunal (NGT) vide its order dated 7.08.18 passed in case OA no. 138 of 2016 and O.A. no. 139 of 2016 directed to restore the standard of water quality in the river Ghaggar to the prescribed level. NGT also constituted an 'Executing Committee' under Chairmanship of Justice Pritam Pal, State level Special Task Force under Chief Secretary and District level Special Task Force under Deputy Commissioner to monitor the compliance of the order.
- 1.5.2 NGT vide another order dated 20.09.18 passed in OA no. 673/2018 titled as news item published in "The Hindu" authored by Shri. Jacob Kosuhy titled "More river stretches are now critically polluted: CPCB" has directed to prepare Action Plans within two months for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e BOD <3 mg/l and FC < 500 MPN/100 ml) within six months from the date of finalization of the action plans.
- 1.5.3 There are 4 number of polluted rivers stretches falling under the jurisdiction of State of Punjab as per the details given in the judgement:
- (i) Ghaggar (Sardulgarh to Mubarkpur)
 - (ii) Sutlej (Roopnagar to Harike bridge)
 - (iii) Kali Bein (SultanpurLodhi to Confluence point to Beas)
 - (iv) Beas (along Mukerian)

- 1.5.4 It has been directed that the action plans be prepared by four-member Committee comprising Director, Environment; Director, Urban Development; Director Industries; Member Secretary, State Pollution Control Board of concerned State. This Committee will also be the Monitoring Committee for execution of the action plan. The Committee may be called "River Rejuvenation Committee" (RRC). The RRC will function under the overall supervision and coordination of Principal Secretary, Environment. The Chief Secretaries of the State and Administrators / Advisors to Administrators of the Union Territories will be personally accountable for failure to formulate action plan, as directed.

Chapter 2 – Vision, Mission and Strategy

2.1 Overarching Vision of the State - Mission Tandrust Punjab

The Government of Punjab has launched Mission Tandrust Punjab to make Punjab a healthy State with healthy people by ensuring the quality of air, water, food and a good living Environment. Mission Tandrust Punjab comprises of nine sub missions namely Clean Air, Clean Water, Improve Waste Management, Safe Food, Safe Drugs, Preventive Health, Khedo Punjab, Green Punjab, Conservation Agriculture.

2.2 Vision for Clean Ghaggar

To restore the quality of water in Ghaggar to prescribed standards to ensure ecological balance and socio-economic wellbeing of the people.

2.3 Mission Clean Ghaggar

To prepare and implement a comprehensive action plan for clean Ghaggar:

- (i) Creating awareness about the adverse impact of water pollution
- (ii) Identifying the sources of water pollution
- (iii) Setting up facilities for treating the pollutants
- (iv) Ensuring effective operations of the facilities
- (v) Ensuring effective monitoring of the quality of water
- (vi) Mitigating adverse impact on health of the people in the surrounding areas

2.4 Strategy for Clean River Ghaggar

The strategy for clean River Sutlej includes:

- (i) Identification of Stakeholders
- (ii) Identification of sources of pollution
- (iii) Measures to control pollution and timelines
- (iv) Nodal Department
- (v) Integration of Departmental Plans
- (vi) Monitoring and Review
- (vii) Risk Mitigation Plan

2.5 Identification of the Stakeholders and their roles

The State of Punjab envisages a comprehensive plan for cleaning of River Ghaggar by involving all the Stakeholders namely:

2.5.1 Department of Science, Technology and Environment

The Directorate of Environment and Climate Change and Punjab Pollution Control Board will be responsible for the following:

- (i) Overall coordination of the Action Plan and ensuring its successful implementation
- (ii) Setting up comprehensive online monitoring portal connecting all the executing and monitoring agencies
- (iii) Setting up of Infrastructure to monitor the quality of water
- (iv) Monitoring of quality of water of River Ghaggar & ground water
- (v) Monitoring of discharge from Industries including ETPs

- (vi) Monitoring of discharge from STPs and other disposal facilities
- (vii) Monitoring of management of solid waste and other waste

2.5.2 **Department of Local Government**

As per the policy decision of the Department of Local Government, all Municipal Corporations are responsible for execution of their water supply and sewerage works including setting up of STPs while all Municipal Council will get the works executed through Punjab Water Supply and Sewerage Board. The policy is yet to be fully implemented as some Corporations are still relying on PWSSB for execution of works, on the other hand, some Municipal Councils are executing works on their own instead of PWSSB.

Design

- (i) Design projects to cover entire population with sewerage network system and its connection with STP.
- (ii) Design Sewage Treatment Plants of adequate capacity
- (iii) Design as per the prescribed standards

Construction

- (iv) Monitor land acquisition closely as it is pre-requisite for setting up of STPs
- (v) Ensure reputed professional contractors
- (vi) Construction of STPs as per timelines mentioned in the action plan
- (vii) Ensuring regular flow of funds during construction

Operation and Maintenance

- (viii) Arranging funds for operation and maintenance of STPs to ensuring regular operation and maintenance of STPs in a professional manner
- (ix) Providing proper in-house laboratory facilities at each STP for maintaining record of characteristics of analysis of untreated as well as treated waste water
- (x) Installation, operation & maintenance of online continuous effluent monitoring system as well as CCTV cameras for the existing STPs as well as new STPs to be installed

Solid Waste

- (xi) Proper management & handling of municipal solid waste so as not to be thrown in river

2.5.3 **Department of Housing and Urban Development**

The Department and all the Development authorities under its control are responsible for various Urban Estates developed by them. In addition, the Government has entrusted construction and subsequent operation and maintenance of Sewerage network and Sewage Treatment Plants in some of the cities to various Urban Development Authorities. In all cases, where the Urban Development Authorities are discharging the functions, they shall have all the responsibilities listed out in clause 2.5.3 for Department of Local Government.

2.5.4 **Department of Industries and Commerce**

Department of Industries and Commerce through Punjab Small Industries & Export Corporation is responsible for management of Industrial Focal Points set up by it or transferred to it. PSIEC shall have all the responsibilities listed out in clause 2.5.3 for Department of Local Government in respect of Industrial Focal points.

2.5.5 Department of Rural Development and Panchayat

The Department of Rural Development has to provide for necessary treatment facilities in village ponds so that no untreated or polluted water enters river directly or indirectly through various drains or creeks. The Department has the following responsibilities:

- (i) Finalization of appropriate technology
- (ii) Arrangement of Funds for treatment technology in various villages identified in the Action Plan
- (iii) Reuse of water for agriculture purpose
- (iv) Proper operation and maintenance of treatment facilities installed in village ponds

2.5.6 Department of Water Supply and Sanitation

The Department of Water Supply and Sanitation along with Department of Rural Development and Panchayat will be responsible for treatment and sanitation facilities in rural areas. It has also been given some of the works in urban areas. It will accordingly discharge relevant responsibilities for rural and urban areas in respects of projects, which may be assigned to the Department.

2.5.7 Department of Agriculture

The Department of Agriculture through the Directorate of Soil and Water conservation is responsible for implementation of various schemes for utilizing the treated wastewater from urban and rural treatment facilities for irrigation by the farmers. It has the following responsibilities:

- (i) Design the project as per the standards
- (ii) Follow up with various funding agencies to arrange funds
- (iii) Executing the schemes as per the timelines provided in the plan

2.5.8 Department of Health and Family Welfare

The Department of Health and Family Welfare has the following responsibilities:

- (i) Checking of health indices of the in-habitants & maintaining database
- (ii) Holding awareness camps in the catchment area of River Sutlej to make the public aware regarding water borne diseases

2.5.9 Department of Water Resources

The Department of Water Resources through the Chief Engineer, Drainage has the following responsibilities:

- (i) Measurement of flow at different locations
- (ii) To stop unauthorized discharge in the drains
- (iii) Watershed Management
- (iv) Protection and Management of Flood Plain Zones
- (v) E. Flow (Ecological/Environment Flow)

2.5.10 Department of Forest & Wildlife Preservation & Punjab Biodiversity Board

Department of Forest & Wildlife Preservation & Punjab Biodiversity Board will be responsible for the following:

- (i) Plantation on both sides of river and in the Flood Plain Zones
- (ii) Biodiversity Conservation

2.5.11 District Administration

District Administration will be responsible for monitoring of activities of the action plan at district level.

Hon'ble National Green Tribunal vide order dated 26/09/2019 in O.A. No. 360 of 2018 filed by Shree Nath Sharma Vs Union of India and Others directed to prepare District Environmental Plans (DEP) as per local requirements by all Districts under supervision of District Magistrate. The DEPs of Districts Mohali, Patiala, Sangrur and Mansa falling in the catchment area of River Ghaggar have been prepared and monitored through monthly meetings of the District Environment Committee. The action plan of cleaning River Ghaggar is also being monitored at District level by this District Environment Committee.

2.6 Nodal Department

The Department of Science, Technology and Environment is the nodal department for coordinating and monitoring activities of the plan.

2.7 Integration of Departmental plans

The Nodal Department will integrate plans of individual departments for control of pollution from various sources and prepare a comprehensive plan and will coordinate its execution by tracking the progress through a centralized IT platform.

2.8 Monitoring and Governance

- (i) There will be rigorous monitoring of implementation of the comprehensive plan:
 - (a) Monitoring of physical and financial progress of works being executed
 - (b) Monitoring of operations and management of facilities set up
 - (c) Monitoring of quality of water
 - (d) Monitoring of health and diseases in the surrounding areas
 - (e) Monitoring of awareness campaign
- (ii) Setting up of IT platform for tracking progress and analysis
- (iii) The monitoring will be done at the District level & State Level.

Chapter 3 – Current Status of Water Quality, Biodiversity & Watershed Management

3.1 Monitoring Locations

The water quality of river Ghaggar is being monitored at 14 locations, starting from upstream of Mubarikpur (where it enters State of Punjab) upto Sardulgarh in Distt. Mansa on monthly basis:

- (i) Ghaggar at Mubarikpur Rest House
- (ii) Ghaggar at Bhankarpur, Dera Bassi
- (iii) Ghaggar at D/s Chattbir
- (iv) Ghaggar at U/s Jharmal Nadi
- (v) Ghaggar at D/s Jharmal Nadi
- (vi) Ghaggar at U/s Dhakansu Nallah
- (vii) Ghaggar at D/s Dhakansu Nallah
- (viii) Ghaggar at Rattanheri D/s of Patiala Nadi
- (ix) Ghaggar at 100 m D/s of Khanauri
- (x) Ghaggar at Moonak
- (xi) Ghaggar at U/s Sardulgarh
- (xii) Ghaggar at D/s Sardulgarh
- (xiii) Ghaggar at U/s Sagarpara (w.e.f May 2018)
- (xiv) Ghaggar at D/s Sagarpara (w.e.f May 2018)

3.2 CPCB's norms for designated best use

The Central Pollution Control Board has laid down criteria for designated best use class of the water of the water bodies, which is as under:

S.N	Constituent Parameters	Designated Best Use Class				
		A	B	C	D	E
1.	Dissolved oxygen, mg/l, Min	6	5	4	4	-
2.	Biochemical Oxygen Demand, mg/l, Max	2	3	3	-	-
3.	Total coliform Organisms MPN/100 ml, Max	50	500	5000	-	-
4.	pH value	6.5- 8.5	6.5-8.5	6-9	6.5-8.5	6-8.5
5.	Free ammonia (As N) mg/l, Max	-	-	-	1.2	-
6.	Electrical conductivity μ s/cm max.	-	-	-	-	2250

7.	Sodium absorption ratio, Max.	-	-	-	-	2.6
8.	Boron, mg/l, Max	-	-	-	-	2

Note:

Class A: Drinking water sources without conventional treatment, but, after disinfection.

Class B: Organized outdoor bathing.

Class C: Drinking water sources with conventional treatment followed by disinfection.

Class D: Propagation of wild life and fisheries.

Class E: Irrigation, Industrial cooling and controlled water disposal.

3.3 Current Status of Quality of Water in Ghaggar

3.3.1 The representative quality of water of river Ghaggar at 14 locations for the month of **June, 2025 is given in Annexure-A**. The quality of water at few locations has degraded which may pose threat of water borne diseases to the health of people residing in the catchment area of river Ghaggar. The river Ghaggar being an unlined water body and the polluted water flowing in it might have deteriorated the groundwater quality in the catchment area. In order to ascertain the extent of effect of polluted water of river Ghaggar on the health of inhabitants, the State Government has planned to hold health check camps in the catchments areas of river Ghaggar.

3.3.2 The details of analysis results of surface water monitoring under National Water Monitoring Program (NWMP) for the year **2021-22, 2022-23 & 2023-24 are given in Annexure-B**. It is evident that Class-D quality of water enters the State of Punjab, **which varies from Class-D to Class-E due to mixing of different point sources carrying untreated domestic waste water. However, due to self-purification while travelling a distance of approximately 165 Km, water quality of River Ghaggar at the exit point of Punjab at Sardulgarh before entering the State of Haryana becomes Class-D. The deterioration of water quality is due to untreated waste being discharged in the river directly or indirectly.**

3.3.3 It is pertinent to mention here that earlier the river Ghaggar was a perennial water body, but, due to construction of check dams and watersheds, it has become a non-perennial water body carrying sewage and sullage of the habitation areas located in its catchment area. It finally terminates near Sardulgarh.

3.4 Ground Water Quality in the catchment area of river Ghaggar

3.4.1 Sampling by Central Ground Water Board

The Central Ground Water Board (CGWB) has carried out ground water sampling in the ~~catchment area of river Ghaggar and year 2023 from 16776 locations of the Country, including 922 locations from the State of Punjab and has published the analysis reports of the samples collected by it on its website. As per this report of CGWB regarding quality of ground water is as under:~~

(i) Ground Water Quality

~~During the month of May, 2017 ground water samples were collected from the structures spread uniformly over the area.~~ The water samples were analyzed for major cations (Ca, Mg, Na, K) and anions (CO₃, HCO₃, Cl, NO₃, SO₄) in addition to pH,

EC, F, ~~SiO₂~~, PO₄ and TH as CaCO₃ ~~and Heavy Metals such as Cd, Cu, Mn, Pb, Zn in the Regional Chemical Laboratory by following 'Standard analytical procedures' as given in APHA 2017.~~

(ii) **Composition of Water**

Chemical analysis shows that the ground water is slightly to moderately alkaline in nature. The pH values range from ~~7.44~~ **7.20** at ~~Sirsini Dhalewan in SAS Nagar~~ Mansa district to ~~9.71~~ **8.86** at ~~Fatta Maluka Adamke in Mansa district.~~ Hardness reported in terms of CaCO₃ ranges from ~~31~~ **60** at ~~Bhikhi in Mansa Baurhai Khurd in Sangrur to 936~~ **1341** mg/l at ~~Raipur in Mansa district~~ Basma Tepla in Patiala District. EC value of ground water in the area varies from ~~233~~ **252** µS/cm at ~~Dehri in SAS Nagar~~ ~~Khaira Kalan in Mansa~~ district to ~~4898~~ **6635** µS/cm at ~~Raipur~~ ~~Dhalewan in Mansa district.~~ Chloride content of ground water normally follows the distribution pattern of EC and it ranges from 14 mg/l to 681 mg/l in the Ghaggar Basin of the State. Chloride concentration above 400 mg/l gives salty taste to water, Nitrate in ground water above 5.0 mg/l reflects contamination at some stage of its percolation and circulation. Nitrate in water samples varies from traces to ~~208~~ **574** mg/l at ~~Burj Bhalaik in Mansa Derabassi in SAS Nagar~~ district, whereas the fluoride concentration in ground water ranges from BDL to ~~5.63~~ **11.20** mg/l at ~~Bhateri in Fatehgarh Sahib Adamke in Mansa District.~~ Fluoride concentration upto 1.0 mg/l in drinking water is desirable, upto 1.5 mg/l is permitted and above 1.5 mg/l is injurious.

(iii) ~~Heavy Metals~~

~~Presence of heavy metals in ground water is also monitored by CGWB and studies were carried out during the year 2017. Some elements such as Fe, Mn, Zn, Cu, Se, Sn, Mo are essential in trace amounts for growth and development of living organisms as well as plants. Nevertheless, these are hazardous in large amounts. The details are as under:~~

- ~~(a) Cadmium in shallow ground water varies from 0.00006 mg/l at Goga in district SAS Nagar to 0.02 mg/l at Raipur in district Mansa. Copper in shallow ground water has been found to be within permissible limits of 1.5 mg/l (as per BIS Limit) except at Issapur in Dera Bassi Block of district SAS Nagar.~~
- ~~(b) Manganese in shallow ground water ranges from 0.0024 mg/l at Sunam in district Sangrur to 1.457 mg/l at Bassama Pipla in district Patiala. Concentration of Lead in shallow ground water ranges from 0.0008mg/l at Handesra in district SAS Nagar to 1.896 mg/l at Lachru Kalan in district Patiala.~~
- ~~(c) Zinc in shallow ground water ranges from 0.002 mg/l at Patran in district Patiala to 5.615 mg/l at Bhutan in district Sangrur. All locations show that Zinc has been observed within permissible limit of 15 mg/l (as per BIS Limit). Arsenic in shallow ground water at all locations has been observed within permissible limits.~~

3.4.2 Ground water sampling in the vicinity of river Ghaggar

~~The Punjab Pollution Control Board has carried out ground water sampling at 79 locations in and around 62 industries (in some industries, more than one sample was drawn) to~~

~~ascertain the quality of ground water in respect of parameters such as fluoride, sulphate, cadmium, copper, lead, nickel, zinc, arsenic, mercury and oil & grease. Out of these, 71 samples were found conforming to the prescribed standards as laid down in IS: 10500—2012. In 8 samples, the concentration of either fluoride or sulphate or both was found beyond the prescribed standards. The Board will take necessary action and monitor the quality of ground water regularly and the same will be reviewed at the district and state level.~~

The Punjab Pollution Control Board has carried out monitoring of ground water at 08 locations near vicinity of River Ghaggar under NWMP biannually (April and October) from the years 2022 to 2024. The samples were collected & analyzed as per CPCB protocol for general parameters, heavy metals and pesticides. The analysis reports are also uploaded on Environment Water Quality Data Entry System (EWQDES) portal of CPCB. The list of Ground Water Stations mainly in the area of vicinity of River Ghaggar are as under:-

Sr. No	Station Name
1	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar
2	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.
3	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura
4	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main
5	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran
6	~~adjoining HP Petrol Pump, at a distance of Approx. at 200 from M/s HMEI Refinery~~
7	~~Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.~~
8	~~Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt. Bathinda.~~

The analysis data for monitoring of Ground Water under NWMP for the year 2022 to 2024 is as per Annexure B1.

3.4.3 Environmental Flow (E. Flow) of river Ghaggar

'Environmental Flows' is minimum quantity of continued availability of water in the river to ensure downstream environmental, social & economic benefits as well as sustainability of its aquatic ecosystem. Presently, no information is available about the E. Flow of river Ghaggar. It should be measured at different locations and records be maintained by Department of Water Resources, Punjab. Fresh water flowing through escape channels/small barrages should be checked. Good quality of water may be used for dilution to reduce concentration of pollutants to meet the desired level of water quality and extent of flow as per prescribed norms. Dilution of pollution will be used only after achieving degree of required treatment for municipal sewage and industrial effluents.

3.4.4 Biodiversity Profile of river Ghaggar

Physiographically, the whole Ghaggar river basin area in Punjab, except foot hills of the Shivalik in the north, has undulating to flat topography. The soils of the area consist of alluvial deposits and ranges from looms to sandy looms. Seven (7) Wildlife Sanctuaries namely Sukhna, Chandigarh; Bir Moti Bagh; Bir Bhunerheri; Bir Dosanjh; Bir Mehas Wala; Bir Gurdialpura; Bir Bhadson, Patiala and Bir Aishwan, Sangrur having rich biodiversity fall under the Ghaggar River Basin area in Chandigarh (UT) and Punjab.

The biodiversity in the Ghaggar river catchment area is under threat due to growing population, intensive & extensive agriculture, reclamation of barren land, pollution and habitat loss. The forest cover in the Ghaggar catchment ranges from the category of northern dry deciduous mixed forest, dry deciduous scrub forest and tropical desert thorn comprising many tree species with dominance of Khairi (*Acacia Senegal*), Beri (*Zizyphus mauritiana*), Reru (*Acacia Leucophloea*), Bohar (*Ficus bengalensis*), Peepal (*Ficus religiosa*), Mesquite (*Prosopis Juliflora*), Lasura (*Cordia dichotoma*), Shisham (*Dalbergia sissoo*), Kikar (*Acacia nilotica*) and 10 species of shrubs including Castor (*Ricinus Communis*), Mallah (*Zizyphus nummularia*), Karir (*Capparis deciduas*), Ak (*Calotropis procera*), Vasaka (*Adhatoda vasica*), etc.

Further, 14 species of mammals, 9 species of fish, 5 species of amphibians and around 35 species of aquatic & terrestrial birds are also reported from Ghaggar and its adjoining areas

3.4.5 Watershed Management in the Catchment Area of Ghaggar

Integrated Watershed Management Programme (IWMP) is one of the flagship programmes of the Government of India and aims at prevention of soil run-off, regeneration of natural vegetation, rain water harvesting & recharging of the ground water table for restoring the ecological balances of an area. This programme also enables multi-cropping & introduction of diverse agro-based activities, which help in providing sustainable livelihoods to the people residing in the watershed area.

The Nodal Department for IWMP in Punjab i.e. Department of Soil & Water Conservation has implemented 6 projects amounting to Rs. 4395.84 Lacs in the catchment area of river Ghaggar in 2 Districts i.e. SAS Nagar and Patiala in F.Y. 2011-12 and 2013-14 for treatment of 36,632 hectare area. The major activities included construction of check dams/water harvesting structures, rain water storage and recharging, silt detention structures, stream bank protection, contour bunding, runoff check and drop structures, retaining walls & percolation tanks, vegetative hedges, efficient conveyance of water through underground pipeline system, artificial roof-top rainwater harvesting & recharging, renovation of village Ponds, agro forestry plantation, etc. The livelihood and farm production support was extended through formation of Self-help Groups for pickle and food processing etc., distribution of improved varieties & agriculture inputs and livestock support programmes to develop additional source of income for farmers and landless. Regular trainings were provided to all the beneficiaries to enhance their capacities. The infrastructure for 282.81 Kms long flood protection embankments along river Ghaggar has been created by Department of Water Resources, Punjab.

Chapter 4 – Sources of Water Pollution in River Ghaggar

4.1 Major Drains

4.1.1 There are 13 major drains/ choes/ nallahs which are directly discharging into the river Ghaggar. The details of these drains/ choes/ nallahs are given in **Annexure-C**. There are 29 creeks which are discharging into 13 major drains, which are given in **Annexure-D**. The **362.945** MLD waste water from **31** urban bodies is being directly/indirectly discharged into river Ghaggar (**Annexure –E**). Further, 389 villages are also discharging 99.43 MLD waste water directly/indirectly in the river Ghaggar (**Annexure-F**).

4.1.2 There are following major sources polluting the river Ghaggar:

- (i) Sewage/ sullage generated from Urban Areas
- (ii) Sewage/ sullage generated from Rural Areas
- (iii) Industrial sources

4.2 Sewage/ sullage generated from Urban Areas

4.2.1 There are **31** local bodies which are discharging their wastewater either directly or indirectly into river Ghaggar. ~~14 STPs of 139.9 MLD~~ **22 STPs of 248.69 MLD** capacity have been installed and commissioned in **14 18** towns meeting their full requirements. ~~6 11 STPs of 81.5 75.8~~ MLD capacity have been installed in another **4 8** towns meeting their partial requirement. The details of fully completed and partially completed STPs are given in **Annexure-G (A) and G(B)**. Status regarding total sewage generation, available capacity of the STPs, additional STPs to be installed and balance quantity of sewage to be treated is given in **Annexure-G (C)**.

4.3 Sewage/ sullage generated from Rural Areas

There are 389 villages, which are discharging 99.43 MLD waste water through various creeks and drains into Ghaggar. In order to install necessary treatment facilities to treat the wastewater of rural areas, 389 villages ~~will be prioritise~~ have been prioritized into following phases:

Phase 1: 98 Villages having total discharge of ~~32.17~~ **31.60** MLD

Phase 2: 203 Villages having total discharge of **43.62** MLD

Phase 3: 87 Villages having total discharge of ~~23.76~~ **24.20** MLD

4.4 Industrial Sources

4.4.1 Industrial units located at Dera Bassi and adjoining areas

- (i) There are ~~41~~ **35** water polluting industries in the catchment area of river Ghaggar at Dera Bassi and adjoining areas. None of the industries is allowed to discharge the untreated / treated wastewater into the drains/ choes leading to river Ghaggar. A list of these industries is as per **Annexure-H**. The brief detail about these industries is as under:

Sr. No.	Type of industry	No. of units	No. of industries installed ETPs	No. of industries installed online continuous monitoring system
1)	Pharmaceutical industries	11	11	5

2)	Pharmaceutical formulation units	3	3	0
3)	Dyeing units	5	5	0
4)	Pulp & Paper mills	2	2	2
5)	Electroplating industries	4	CETP*	0
6)	Engineering goods units	1	CETP	-
7)	Pesticide manufacturing	1	1	1
8)	Distillery unit	1	1	1
9)	Brewery unit	1	1	0
10)	Meat Plant	2	2	0
11)	Gelatine manufacturing unit	1	1	0
12)	Organic Chemical manufacturing units	2	2	0
13)	Resin Manufacturing	1	1	0
Total		35	30	9

** Tied up with M/s Bantech Water Private Limited, Kurali, who is the operator of the CETP at Kurali meant for treatment of wastewater containing heavy metals.*

- (ii) However, the screening plants of Dera Bassi area are partly discharging their wastewater into river Ghaggar, but, their wastewater neither contains any organic materials contributing BOD/ COD nor any chemicals. Therefore, the PPCB envisages to pursue the industries to devise a mechanism for 100% recirculation of the wastewater generated from the washing of river bed material.

4.4.2 Industrial units located in the catchment area of Patiala Nadi

- (i) There are 7 water polluting industries in Distt. Patiala in the catchment area of river Ghaggar. A list of these industries is attached herewith as **Annexure-I**. The break-up of these industries is as under:

Sr. No.	Type of industry	No. of units	No. of industries installed ETPs	No. of industries installed online continuous monitoring system

1	Pulp & Paper mills	4	4	3
2	Distillery unit	1	1	1
3	Board mills	2	2	0

- (ii) Since, all these industries are located near the bank of Patiala Nadi/ Jacob drain, as such, there is need to monitor all these industries in odd hours to rule out the possibility for discharge of wastewater into said drains during odd hours.

Chapter 5 – Other sources of pollution and their management

5.1 Bio Medical Waste

- 5.1.1 The bio-medical waste of all the Healthcare Facilities in the State is collected, transported, treated and disposed of by 6 authorized Common Bio-Medical Waste Treatment Facilities (CBWTF) located at Ludhiana, SAS Nagar, Amritsar, Pathankot, **Sri Muktsar Sahib and Jalandhar**. The Bio-Medical Waste generation in the State is in the range of **23-25** tons per day (TPD) depending upon patient load. The status of HCFs operating in towns falling in catchment areas of river Ghaggar is given in **Annexure-J**.
- 5.1.2 The collection vehicles of the CBWTF operators are equipped with Global Positioning System (GPS) with access to Punjab Pollution Control Board (PPCB). The CBWTF operators are using Bar-code based software system for collection of bio-medical waste from Healthcare Facilities since 2012 and the data of collection of bio-medical waste from the healthcare facility is sent online to server within 1-2 minutes and the access of same is available with PPCB. CCTV cameras are also installed in the processing areas of all the 6 CBWTF operators with access to PPCB to monitor the working of the facility.
- 5.1.3 The stack of the incinerator installed in all the 6 CBWTFs have been provided with Online Continuous Emission Monitoring System and the data is transferred online to PPCB and CPCB. This system helps in observing/monitoring the emissions discharged while treatment of bio-medical waste is being done.
- 5.1.4 Since, the Bio-Medical Waste generated in the catchment area of River Ghaggar is handled and managed in proper manner through the Common Bio-Medical Waste Treatment Facilities (CBWTF), as such, there is no impact of this waste on the water quality of River Ghaggar.

5.2 Hazardous Waste

- 5.2.1 The Government of India has framed Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 for the scientific handling of hazardous waste. The occupier of the facility is to apply for authorization for handling, generation, collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the waste to the Board. A pass book is issued along-with authorization to the actual user of the hazardous waste.
- 5.2.2 As per the interim order dt. 14-10-2003 of Hon'ble Supreme Court in Writ Petition (Civil) No. 657 of 1995, regarding handling of hazardous waste and development of common treatment, storage and disposal facility, a Common Treatment, Storage and Disposal Facility (CTSDF) at Village Nimbuan, Tehsil Dera Bassi, Distt. SAS Nagar was constructed by M/s Nimbuan Green Field Punjab Limited (NGPL) and commissioned in October 2007. **The TSDF is currently being operated by M/s Re-Sustainability Ltd. (Formerly Known as Ramky Enviro Engineers Ltd.), Hyderabad.**
- 5.2.3 ~~The facility has been designed for 15 years capacity considering the generation of storable quantity of hazardous waste as 36,000 MTA based on the assessment study carried out by M/s Tetrattech India Limited. The total capacity of the facility is 7.0 lac MT. As on 31.03.2025, a total of 6.49 lac MT of hazardous waste has been landfilled at the site with a remaining~~

available capacity of 50174 MT. The current rate of landfilling is about 4300 MT/month. Therefore, the capacity to store hazardous waste in the existing TSDF is sufficient upto December 2025. The TSDF is making efforts to increase its landfilling capacity up to year 2030. The vehicles used by the common facility operator for transportation of hazardous waste are equipped with GPS system.

- 5.2.4 At present no common incinerator has been installed at CTSDf and the same is under planning. All the major industries generating incinerable hazardous waste have installed captive incinerator in their premises for disposal of incinerable waste. ~~Eighteen such captive incinerators are in operation for the disposal of incinerable waste.~~ In addition to the above, the incinerable waste from the remaining industries is received by the operator of CTSDf and is incinerated at the incinerator installed by the CTSDf at its another unit at Kanpur.
- 5.2.5 Since, the Hazardous Waste generated by the industries in the catchment area of River Ghaggar is handled and managed in proper manner through the Common Treatment, Storage & Disposal Facility installed at Vill. Nimbuan, Tehsil Dera Bassi, Distt. SAS Nagar, as such, there is no impact of this waste on the water quality of River Ghaggar.
- 5.2.6 Data of quantity of hazardous waste generated during the period **January, 2024 to December, 2024** is as under:

S.N.	Name of District	Quantity of hazardous waste generated (in TPA)		
		Incinerable	Disposable	Recyclable
1	Sangrur	65.55	6827.56	4625.387
2.	Mansa	2.76	2.3	27.76 & 4165 drums
3.	SAS Nagar	2883.7	14080.13	7035.33
4.	Patiala	127.102	577.109	2707.14

5.3 E-Waste

- 5.3.1 **Government of India has framed E-Waste (Management) Rules, 2022 as amended on 02.11.2022.8 nos. recyclers have obtained registration under the Rules at EPR Portal of CPCB with capacity to handle 46025 TPA of E-waste.**

~~5.3.2 PPCB has granted 'Consent to Establish' to two industries i.e. M/s Black Diamond Cements Pvt. Ltd., Tehsil Dera Bassi, district SAS Nagar and M/s Spreco Recycling, Tehsil Raikot, District Ludhiana to establish E-Waste recycling facility of capacities 30 TPD and 0.8 TPD respectively. These said industries have yet not commissioned the said facility. Two parties each in Amritsar and Jalandhar, have also been given go-ahead by PPCB for setting up of the E-Waste recycling facilities.~~

- 5.3.3 Although, the channelization of E-Waste has recently been started, disposal of such waste has never been noticed in the River Ghaggar.

5.4 Solid Waste

- 5.4.1 The Department of Local Government (DLG) vide notification dated 09.07.2018 has notified the Punjab State Solid Waste Management Policy, 2018. In view of the past experience, it

has been decided to adopt both decentralized and centralized solid waste management approach depending upon the profile of the locality.

- ~~5.4.2 Further, in compliance to the orders of the Hon'ble Punjab and Haryana High Court in CWP No. 7039 of 2010, a Common Action Plan containing 10 points was prepared in 2012 for viable alternative measures for disposal of garbage till setting up of Solid Waste Management Plants. The Directorate of Local Government is the implementing agency for this Action Plan and PPCB is monitoring the status of compliance. Out of 167 Urban Local Bodies (ULBs), 113 ULBs are partially complying with the Common action plan and remaining 54 ULBs are yet to comply with the same.~~
- 5.4.3 The Ministry of Environment and Forests, GOI has notified Solid Waste Management Rules, 2016. Implementation of these Rules is being monitored by the Board. As per Rule 24 of the Solid Waste Management Rules, 2016, the local body shall submit its annual report to the Board on or before the 30th day of June every year. Further, the Board is required to submit the consolidated annual report to the Central Pollution Control Board and Ministry of Urban Development by the 31st day of July of each year. The same are regularly uploaded on the official website of the Board also.
- ~~5.4.4 The Government of Punjab through Directorate of Environment & Climate Change (DECC) has notified the Comprehensive Action Plan on Waste Management, Including municipal solid waste In April 2019. Timelines to comply with the Solid Waste Management Rules, 2016 by all the ULBs of the State have been fixed in this Action Plan. Department of Local Government and PPCB are regularly monitoring the same regularly.~~
- ~~5.4.5 Total 8436 no. of processing sites (honeycomb aerobic composting pits) have been set up in the State till the end of year 2023, for processing of the wet waste. Channelization of the recyclable waste is done through 266 Material Recovery Facilities (MRFs) and only inert waste will go the Sanitary Land Fill (SLFs) sites. 163 SLFs have been identified by the Department of Local Government out of which 61 have been constructed. Punjab Pollution Control Board is monitoring the implementation of the provisions of SWM Rules, 2016 and Monthly Progress Report (MPR) of the same is submitted to DECC, Punjab.~~
- ~~5.4.6 The Hon'ble National Green Tribunal, New Delhi vide orders dated 10.01.2020 and 17.09.2020 in matter of OA No. 606/2018 titled as Compliance of Solid Waste Management Rules, 2016 has also mandated to impose an Environmental Compensation (EC) based on "Polluter Pay Principle" on those ULBs which fall to comply with timelines fixed in Rule 22 of Solid Waste Management Rules, 2016 w.e.f. 01.07.2020 till compliance. The Board has imposed Environmental Compensation amounting to Rs. 117.53 Crores on all the ULBs as per template framed by CPCB, for violation of activities from Sr. no. 1 to 10 and 11 as mentioned at Rule 22 of SWM Rules, 2016, for the period 01-07-2020 to 30.09.2023.~~

Chapter 6 – Utilization of Treated Wastewater and Sludge from STPs

6.1 The State Treated Waste Utilization Policy

- 6.1.1 The Department of Local Govt. has notified "The State Treated Waste Policy -2017" to promote the recycling and reusing the treated sewage for non-potable applications and to make sewage project economical and environmentally sustainable.
- 6.1.2 The policy envisages to tackle the issues pertaining to the provisions of adequate wastewater collection and treatment facilities, consideration of treated effluents as resource for reuse in irrigation/ industrial/ other fields and thereby improvement of the socio-economic conditions in the areas to serve by the proposed systems.
- 6.1.3 The Department of Soil and Water Conservation, Punjab is executing projects for utilization of treated wastewater for irrigation of various towns/cities across the State by laying network of underground pipelines in agricultural fields.

6.2 Utilization of treated wastewater in the catchment area of Ghaggar River

- 6.2.1 The Department of Soil and Conservation has already commissioned irrigation projects from **12** STPs to utilise the treated wastewater of the STPs located in the catchment area of River Ghaggar. These projects utilise about **78** MLD of treated wastewater and about **1939** hectares of agricultural land is being irrigated. The details are given in **Annexure-K**.
- 6.2.2 From the experience of using STP's treated wastewater for irrigation purposes, following issues emerge, which need to be addressed:
 - (i) In case of STPs based on SBR technology, the discharge of treated wastewater is not continuous and for the gap period of about 45 minutes, the pump through which the treated wastewater is pumped for utilization onto land for irrigation is required to be shutdown, which discourages the farmers to utilize the treated wastewater. Therefore, there is a need to provide a storage tank of sufficient capacity for treated wastewater so that without shutting down the pumping station, the wastewater can be made available to the farmers.
 - (ii) The payment of electricity bill is required to be regulated by fixing the responsibility of the concerned department and funds for this purpose need to be made available with the operating agency.
 - (iii) The farmers need to be educated and made aware about the advantages of use of treated wastewater for irrigation purpose.

6.3 Directions issued by NGT

- 6.3.1 **National Green Tribunal (NGT) in the matter of Original Application No. 148/2016 (M.A. No. 686/2017 dated 27.11.2018) titled as Mahesh Chandra Saxean Vs South Delhi Municipal Corporation & Ors. has directed all the States & Union Territories to prepare and furnish their Action Plans for utilization of treated wastewater in there respective States/UTs within three months.**
- 6.3.2 **As such, the Directorate of Environment and Climate Change, Department of Science, Technology and Environment, Government of Punjab has notified the Action Plan for the State of Punjab for Reuse of treated water on 29.04.2019.**

6.4 Management of sludge from STPs

The management of sludge from STPs will be carried out as per the standards laid down by the Board from time to time. The quality of sludge and compliance will be monitored by the Board and reported for review at the district and State level.

Chapter 7 – Measures for control of water pollution and timelines

7.1 Categories of Projects

7.1.1 The action plan envisages the following facilities to be set up/ upgraded to meet the challenges of pollution in river Ghaggar:

- (i) Setting up of treatment facilities for sewage/sullage in Urban areas
- (ii) Setting up of online system for monitoring STPs
- (iii) Setting up of treatment facilities for sewage/sullage in Rural areas
- (iv) Setting up of facilities for reuse of treated wastewater
- (v) Setting up of treatment facilities in Industrial Areas
- (vi) Setting up of online system for monitoring industrial effluents

7.1.2 Each project will have timelines for various stages of the project. Following stages have been identified to monitor the progress:

Name of the Project			
Brief Scope of the Project			
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR		
2	Financial Closure		
3	Tendering of the Work including allotment		
4	Commencement of Work		
5	Quarterly Milestones during the construction Stage		
6	Completion and Commissioning		

7.2 Timelines for Setting up of treatment facilities for sewage/sullage in Urban areas

(i) Department of Local Government

The Department of Local Government has chalked out plans for setting up of new **19 STPs** and laying down sewerage system for left out areas. The details are given in **Annexure-L**.

- (ii) **Military Engineering Service, Patiala**
 Military Engineering Service, Patiala **has installed and commissioned one STP of 6 MLD capacity.** ~~given the plan for completing one STP, which is given at Annexure-M.~~

7.3 Timelines for installing online continuous monitoring system for STPs

In order to get real time data of the quality of treated wastewater, there is need to install **Online Continuous Effluent Monitoring System (OCEMS)** with facility of flow meter at the outlet of all the STPs of the towns / cities located in the catchment area of River Ghaggar and this system should be attached with server of the concerned department as well as PPCB so that quality of treated wastewater can be put in the public domain. Further CCTV cameras will be installed to monitor the operation of STPs.

OCEMS and CCTV cameras have been installed at STPs Banur (4 MLD), Bareta (3 MLD), Bhikhi (3 MLD), Budhlada (6.5 MLD), Patran (4 MLD), Rajpura (10 MLD and 7 MLD), Sardulgarh (4 MLD), Derabassi (4 MLD), Lalru (1.5 MLD), Mandi Gobindgarh (25 MLD), Samana (10 MLD) and Zirakpur (17.3 MLD). All concerned agencies, which are operating the facilities will ensure online system **in remaining STPs** as per the timelines. The timelines for installing online systems and CCTVs are given in **Annexure –N (A) and N(B)**, respectively.

7.4 Timelines for Setting up of treatment facilities for sewage/sullage in Rural areas

The Department of Rural Development and Panchayat has to prioritize the villages for setting up of treatment facilities. The timelines for setting up treatment facilities in rural areas is given in **Annexure-O.** **The Department has adopted Baba Seechewal and Thapar technology for treatment of waste water generated in rural areas in three phases, the details of which are already mentioned in Annexure-F.**

7.5 Timelines for setting up of Reuse of treated wastewater

The Department of Soil and Water Conservation has given the timelines for setting up of reuse of treated waste water. The details are given in **Annexure-P.**

7.6 Timelines for setting up of treatment facilities in Industrial Areas

The Department of Industries and Commerce through Punjab State Industries & Export Corporation (PSIEC) ~~is currently executing two projects. The details are given in Annexure-Q.~~ **has executed three projects viz. 2 MLD capacity STP at Focal Point, Derabassi, 3 MLD capacity STP at Focal Point, Mandi Gobindgarh and 2.5 MLD capacity at Focal Point, Nabha.**

7.7 Timelines for installing online continuous monitoring system by Industries

All the 17 categories of industries have installed online continuous monitoring system, which are attached with server of CPCB as well as PPCB. Therefore, out of **42** industries, **15** fall in the list of 17 categories of industries, have already installed online continuous monitoring system. As such, the remaining industries having discharge of trade effluent 50 KLD or more are required to install Online Continuous Monitoring System with facility of flow meter at the outlet of their ETPs. The time schedule for installing online system is given in **Annexure**

-R

Chapter 8 – Monitoring Requirements and Formats

8.1 Monitoring Requirements

There are following key components of monitoring

- (i) Monitoring of progress of projects for setting up of new/ upgraded facilities
- (ii) Monitoring of operations and management of STPs
- (iii) Monitoring of ETPs and Industrial Effluents
- (iv) Monitoring of Quality of Water of River Ghaggar
- (v) Monitoring of Ground Water quality
- (vi) Monitoring of adverse impact on health of the people in surrounding areas due to water pollution
- (vii) Monitoring of Awareness campaign
- (viii) Monitoring of other violations of laws/ regulations

8.2 Monitoring of Progress of projects for setting up of new/up graded facilities

In order to ensure that the stakeholder departments adhere to the timelines given for setting up of new/upgraded treatment facilities, the departments shall submit progress of the project on monthly basis in the proforma attached as **Annexure-S** for monitoring.

8.3 Monitoring of operations and management of STPs

To ensure proper functioning of the STPs, regular availability of funds for operation and maintenance has to be ensured. All the STPs should also have standby source of power. The O&M contracts shall have the responsibilities of the Operator clearly defined. Monthly reports as per **Annexure-T & U** will be submitted for monitoring.

8.4 Monitoring of ETP's and Industrial Effluents

Punjab Pollution Control Board shall visit the industries located in the catchment area of River Ghaggar as per protocol regarding frequency of visit to the industries to carry out monitoring of Effluent Treatment Plants & ground water and maintain proper record of all these visits. PPCB will submit report as per the proforma given in **Annexure-V**.

8.5 Monitoring of Quality of Water of River Ghaggar

The Punjab Pollution Control Board shall continue to monitor the quality of water of River Ghaggar at 14 locations under National Water Monitoring Programme and shall report to State Level Special Task Force on monthly basis in the proforma as per **Annexure-W**. Further, the **data from the 64 online** continuous monitoring systems ~~will be~~ installed to get the real time data regarding quality of water of river Ghaggar, ~~which will be~~ **has been** put in public domain for information of public in general.

8.6 Monitoring of Ground Water Quality

The Punjab Pollution Control Board will monitor the ground water quality by taking samples in the Industrial areas. The data from Central Ground Board will also be taken. The reports will be presented for review at the district and state level.

8.7 Monitoring of adverse impact on health of the people in surrounding areas

The District Level Special Task Force shall get organized / conducted the health check-up camps of the people in the catchment area of River Ghaggar and shall submit the monthly report in proforma as per **Annexure-X**, which will be reviewed by State Level Special Task Force and the Executing Committee.

8.8 Monitoring of Awareness campaign

The PPCB will organize awareness programme in partnership with the Department of Health & Family Welfare and other stakeholders in the habitation area falling in the catchment area in River Ghaggar to educate them about the harmful effects of water pollution. The PPCB shall submit monthly report in the proforma as per **Annexure-Y**.

8.9 Monitoring of other violations of laws/ regulations

The PPCB will monitor any violation not covered above and shall take appropriate action against the violator and report in this regard to the State Level Special Task Force and Executing Committee.

8.10 Role of Nodal officers of Stakeholder departments

The Nodal officers of the stakeholder departments will be responsible to send the status reports of the projects related to their departments and monitoring reports in the prescribed proformas. The Departments will appoint Nodal Officers, who would have necessary authority and influence to collect and provide reports. Once the centralised web-based IT system is developed, the relevant officers shall directly update the information on the portal and Nodal officer shall monitor the same.

Chapter 9 – Governance and Supervision

9.1 Three Tier Monitoring

9.1.1 Monitoring will be done by the concerned Departments/ Agencies, which are executing or responsible for particular activities and it will be their primary responsibility to ensure compliance of the Action Plan.

9.1.2 In addition, there will be three level of Committees to review and monitor the status:

- (i) District Level Special Task Force
- (ii) River Rejuvenation Committee
- (iii) State Level Special Task Force / Executing Committee

9.1.3 PPCB will set up a dedicated team for supporting coordination and monitoring of the Action Plan. The team will collate and analyse data from all the concerned agencies and escalate the issues and challenges to the appropriate level for resolution.

9.1.4 A dedicated Management Information System (MIS) for Environment Protection Monitoring System (EPMS) for collecting online information from all the stakeholder departments to monitor their progress with respect to all the actionable components of the Action Plan will also be jointly prepared by Directorate of Environment & Climate Change and Punjab Pollution Control Board.

9.2 District Level Special Task Force (DLSTF)

- (i) The mandate of this task force as per order dated 14.11.2018 issued by the Govt. of Punjab, Deptt. of Science, Technology & Environment is as under:
 - (a) It shall identify all persons responsible for violation of law and norms relating to pollution in Ghaggar river and the drains joining it.
 - (b) It shall review action by the Competent Authority w.r.t. Civil and Criminal action against the violators as well as those who fail to perform their duties in this regard.
 - (c) It shall submit a monthly report on all actions taken by it to the State Level Special Task Force (SLSTF), by first week of every month.
 - (d) It shall assist the SLSTF in preparation of the action plan and finalizing the timelines.
 - (e) It shall involve Civil Society Organizations and public participation in preparing the action plan in all the relevant areas.
 - (f) It shall ensure periodic sampling of river water as well as ground water to check water quality.

9.3 River Rejuvenation Committee

The River Rejuvenation Committee will monitor the Status of implementation of the Action Plan at the State Level.

9.4 State Level Special Task Force

- (i) The mandate of this task force as per order dated 14.11.2018 issued by the Govt. of Punjab, Deptt. of Science, Technology & Environment is as under:

- (a) It shall finalize the Action Plan with firm timelines and review the same.
- (b) It shall submit quarterly report on action taken during the quarter to the Central Pollution Control Board.
- (c) It will also ensure that the quarterly Action Taken Reports are uploaded on the website of Punjab Pollution Control Board.
- (d) It shall Co-ordinate with the Executing Committee, appointed by NGT
- (ii) The State Level Special Task Force will accordingly hold regular meetings to review the progress and taken necessary action against the defaulters.

9.5 **Executing Committee**

- (i) The National Green Tribunal (NGT) has constituted an 'Executing Committee' with the following mandate:
 - (a) The Committee is entitled to issue appropriate directions to concerned authorities for ensuring compliance of the orders of the Hon'ble Tribunal.
 - (b) The target of the Committee will be to restore the standard of water quality in the river to the prescribed level.
 - (c) The Committee may carry out personal visits, if necessary or call for information or reports.
 - (d) The Committee may also consider need for getting organised health camps and need for providing clean drinking water for the affected inhabitants.
 - (e) The sampling of ground water may also be done apart from the sampling of the river water periodically.
 - (f) Submit fortnightly basis report to the Hon'ble NGT through e-mail i.e. filing.ngt@gmail.com
- (ii) The Executing Committee will accordingly review the progress from time to time and issue necessary directions to the concerned authorities.

Chapter 10 – Risk Mitigation Plan

10.1 Identification of Major Risks in the Action Plan

10.1.1 The Action Plan to clean Ghaggar and restore the quality of water to the prescribed standards is a complex multi sectoral and multi-agency action plan. Successful implementation would face many challenges. Following major risks have been identified

- (i) Accuracy and completeness of Baseline Data
- (ii) Accuracy and completeness of Project timelines
- (iii) Financial closure and timely releases of funds
- (iv) Discharge from unapproved habitation areas
- (v) Tracking the Progress and program management
- (vi) Resolution of Administrative and Technical Issues

10.2 Mitigation Plan for identified Risks

It is important to devise strategies and plans to mitigate the identified risks. Action plan will remain on paper if the bottlenecks and the risks are not dealt satisfactorily. Mitigation plan for each of the identified risk has been prepared in the following paras.

10.3 Accuracy and completeness of Baseline Data

Due to paucity of time, the information about the sources of pollution, current treatment facilities, quantity and quality of discharges etc. could not be properly validated and there could be gaps in the same, which may lead to substantial alterations in the plans. In order to ensure accuracy and completeness of baseline data, another round of validation of the same would be got done through the respective Administrative Departments and Action plan updated accordingly. This will be completed in 30 days.

10.4 Accuracy and completeness of Project timelines

Due to paucity of time, the information about the project timelines could not be properly validated and deliberated and there could be gaps in the same. In order to ensure accuracy and completeness of Project timelines, each Administrative Department would be asked to validate the project timelines carefully after taking into account all the relevant factors. The needful will be done in 45 days in parallel to the activity in para 10.3 and Action plan updated accordingly.

10.5 Discharge from unapproved habitation areas

There are certain unapproved colonies or villages, which have come under municipal limit, which are currently not covered in the plans but are discharging their untreated sewage directly or indirectly into river Ghaggar. The concerned authorities for urban and rural areas will be asked to identify such localities and plan for their connectivity with the main sewer or development of the sewer system shall be worked out.

10.6 Financial closure and timely releases of funds

Availability of funds for completing the projects on time is a major risk. Some of the projects have still not achieved financial closure. It has also been observed that the release of funds is often not regular even though the project had appropriate financial approval. In case of operation and maintenance of the facilities, substantial blame has been apportioned to lack of regular release of funds for maintenance, which resulted in failure of STPs to treat the wastewater and as a result untreated water has been discharged in the drain. In order to overcome the challenges, efforts will be made towards:

- (i) Seeking a firm commitment of Department of Finance to release the funds for the projects on priority.
- (ii) In case of operation and maintenance, seeking firm commitment of ULBs/ Department of Local Government to treat this as committed expenditure according to highest priority and release the funds regularly. Further, arrangement may be worked out with the Administrative Department and Department of Finance that in case of default of ULB to pay to the operator, funds will be deducted from the grant to be released to ULB and paid directly to the Operator.

10.7 Tracking the Progress and program management

The action plan for clean Ghaggar is a complex, multi department and multi-agency program and the current capacity and skill sets in PPCB are not adequate to track the progress of various milestones and carry out effective program management for successfully implementing the program. In order to mitigate the risk, a dedicated team with requisite Program Management and IT skills will be positioned to collate data, analyse the same, prepare status updates, escalate issues and assist various committees in review and issue resolution.

10.8 Resolution of Administrative and Technical Issues

There are some other administrative and technical issues, which may hold up the progress of the implementation of the Action Plan:

- (i) Acquisition of land,
- (ii) Usage of water being more than the designed norm of 135 lpcd
- (iii) Mixing of treated/ untreated industrial effluents with domestic sewage system
- (iv) Left out residential pockets need to be integrated with the System
- (v) Treatment technologies

The Program management team will continuously track and identify such issues and escalate to the appropriate level. The three-tier monitoring and review system will help in resolving the issues.

Annexure A - Representative Quality of Water for the month of June 2025

S. N.	Point of Sample Collection	pH	DO mg/l	BOD mg/l	T. Coli. MPN/ 100ml	Cond µs/Cm	Boron mg/l	DBU Classificatio n
1.	Ghaggar at Mubarikpur Rest House	7.4	6.8	10	17000	519	-	D
2.	Ghaggar at Bhankarpur	7.6	2.2	18	24000	824	-	E
3.	Ghaggar at Chattbir	7.6	2.5	18	24000	870	-	E
4.	U/s Jharmal Nadi	7.7	4.2	16	21000	735	-	E
5.	D/s Jharmal Nadi	7.7	2.5	20	28000	870	-	E
6.	U/s Dhakanshu Nallah	7.6	3.6	17	28000	710	-	E
7.	D/s Dhakanshu Nallah	7.6	2.6	22	28000	892	-	E
8.	Ghaggar at Rattanheri	7.8	2.4	23	35000	1002	-	E
9.	U/s Sagar Para	7.8	2.6	21	28000	938	-	E
10.	D/s Sagar Para	7.7	2.2	26	28000	1098	-	E
11.	Ghaggar at Khanauri	7.6	2.6	28	28000	1181	-	E
12.	Ghaggar at Moonak	7.6	2.1	29	35000	1241	-	E
13.	U/s Sardulgarh	7.6	5.8	11	17000	498	-	D
14.	D/s Sardulgarh	7.6	4.6	13	21000	675	-	D

Annexure B - Analysis Results of Surface Water Monitoring 2021-22 to 2023-24

S no.	Sampling points at river Ghaggar	2021- 22	2022- 23	2023- 24	2021- 22	2022- 23	2023- 24	2021- 22	2022- 23	2023-24	2021- 22	2022- 23	2023-24	2021- 22	2022-23	2023-24
		DO (mg/l)			pH			BOD (mg/l)			T. Coliform (MPN/100ml)			D.B.U. classification		
1	Mubarkpur Rest House	5.67	5.2	6.1	7.8	7.8	7.5	11.6	10.7	8.3	19750	22083	19392	D	D	D
2	Bhankarpur, DeraBassi	3.36	3.5	3.5	7.8	7.6	7.3	20.1	19.3	16.5	24667	27583	24500	E	E	E
3	D/S Chattbir	3.34	3.3	3.3	7.6	7.6	7.2	21.4	19.8	17.8	27250	28667	27167	E	E	E
4	U/S Jharmal Nadi	3.86	3.8	3.9	7.8	7.5	7.5	15.3	13.6	11.8	23667	24250	22583	E	E	E
5	D/S Jharmal Nadi	3.30	3.2	3.2	7.6	7.7	7.5	18.6	15.7	15.1	28750	29167	26750	E	E	E
6	U/S Dhakansu Nallah	3.62	3.7	3.7	7.6	7.9	7.5	13.8	13.5	12.7	24417	26083	24667	E	E	E
7	D/S Dhakansu Nallah	3.10	3.2	3.0	7.6	7.7	7.5	17.7	16.8	16.8	28583	31167	29083	E	E	E
8	Rattanheri D/S of Patiala Nadi	2.74	3.1	3.0	7.9	7.8	7.5	19.2	16.7	17.6	28333	31750	30583	E	E	E

S no.	Sampling points at river Ghaggar	2021- 22	2022- 23	2023- 24	2021- 22	2022- 23	2023- 24	2021- 22	2022- 23	2023- 24	2021- 22	2022- 23	2023- 24	2021- 22	2022- 23	2023- 24
		DO (mg/l)			pH			BOD (mg/l)			T. Coliform(MPN/100ml)			D.B.U. classification		
9	U/s Sagar Para	3.03	3.3	3.1	7.8	7.6	7.5	18.5	15.4	16.2	28333	30583	30583	E	E	E
10	D/s Sagar Para	2.64	2.9	2.6	7.9	7.7	7.5	21.4	18.3	20.3	32333	35750	29458	E	E	E
11	Ghaggar at Khanauri	2.93	3.2	3.2	7.9	7.8	7.6	17.7	16.9	17.8	28583	32083	31750	E	E	E
12	Ghaggar at Moonak	2.78	2.8	2.8	7.9	7.9	7.5	20.3	19.8	21.3	33500	38417	36500	E	E	E
13	U/s Sardulgarh	5.88	4.8	5.9	7.6	7.7	7.5	9.3	9.9	9.8	17750	20333	20167	D	D	D
14	D/s Sardulgarh	5.28	4.3	5.1	7.8	7.8	7.7	11.7	11.3	11.4	22083	23583	21833	D	D	D

Annexure B 1- Monitoring Results of Ground Water Samples under NWMP- 2022 to 2024

Year 2022

Sr. no	Point of Collection	Date of collection/ receipt in lab	Sample Collected By RO	GW Code	Depth in mts	Location Code	pH	Turbidity NTU	Conductivity $\mu\text{S}/\text{cm}$	CO ₂ mg/l	TSS mg/l	TDS mg/l	TFS mg/l	T.H as CaCO ₃ mg/l	Ca mg/l	Mg mg/l	F mg/l	NO ₃ as N mg/l	Cl mg/l	SO ₄ mg/l	Talk as CaCO ₃ mg/l	Na mg/l	K mg/l	PO ₄ mg/l	SAR	% Na	B mg/l
1	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	12.4.2022/13/4/2022	SAS Nagar	GW 9	30	2919	7.2	BDL	1362	BDL	BDL	798	679	467	254	34	41	0.78	2.11	112	17	292	7	BD	9.6	79	0.17
2	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	12.4/2022/13/4/2022	SAS Nagar	GW 10	27	2918	7.4	BDL	1757	BDL	BDL	997	849	513	340	42	57	0.49	7.15	213	21	319	19	BD	5.5	73	0.10
3	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura	19.4.2022/20/4/22	Patiala	GW 13	21	4143	7.7	BDL	557	BDL	BDL	334	285	163	37	17	0.19	0.11	42	14	268	41	4	BDL	1.2	35	0.26
4	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main	19.4.2022/20.4.2022	Patiala	GW 11	150	4144	7.8	BDL	608	BDL	BDL	365	312	187	45	18	0.22	4.32	48	19	272	51	5	BDL	1.5	40	0.15
5	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran	19.4.2022/20.4.2022	Patiala	GW 12	55	4145	8.2	BDL	577	BDL	BDL	347	295	224	42	29	0.24	0.69	27	21	219	69	11	BDL	2.1	47	0.19

6	adjoining HP Petrol Pump, at a distance of Approx. at 200 from M/s HMEL Refinery	23.4.2022/ 24/5/2022	Bathinda	GW-62	70	4148	7.9	BDL	315	BDL	BDL	161	137	114	34	7	0.17	0.13	24	7	103	20	5	BDL	0.7	1.0	0.10
7	Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.	23.4.2022/ 24/5/2022	Bathinda	GW-64	100	4147	8.0	BDL	2783	BDL	BDL	1655	1407	104	38	11	4.31	7.82	357	165	542	673	65	BDL	19.2	57	0.34
8	Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt. Bathinda.	23.4.2022/ 24/5/2022	Bathinda	GW-65	60	4149	7.8	BDL	913	BDL	BDL	558	476	171	37	19	2.35	2.01	65	24	264	198	46	BDL	5.9	47	0.19
Sr. no	Point of Collection	Date of collection/ receipt in lab	Sample Collected By RO	GW Code	Depth in mts	Location Code	pH	Turbidity NTU	Conductivity $\mu\text{S/cm}$	CO ₂ mg/l	TSS mg/l	TDS mg/l	TFS mg/l	T.H as CaCO ₃ mg/l	Ca mg/l	Mg mg/l	F mg/l	NO ₃ as N mg/l	Cl mg/l	SO ₄ mg/l	TALK as CaCO ₃ mg/l	Na mg/l	K mg/l	PO ₄ mg/l	SAR	% Na	B mg/l
9	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	31.10.2022 / 01.11.2022	SAS Nagar	GW 199	30	2919	7.4	BDL	2598	BDL	BDL	1829	1558	893	153	124	1.10	2.6	394	291	720	407	17	BDL	14.1	79	0.09
10	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	31.10.2022 / 01.11.2022	SAS Nagar	GW 200	27	2918	7.4	BDL	2368	BDL	BDL	1574	1338	440	106	42	0.92	2.4	277	219	695	458	11	BDL	9.5	67	0.07
11	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura	14.10.2022 / 15.10.2022	Patiala	GW 190	21	4143	7.9	BDL	1107	BDL	BDL	668	572	260	51	32	0.30	1.9	82	38	309	201	14	BDL	4.7	56	BDL

12	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main	14.10.2022 / 15.10.2022	Patiala	GW 189	150	4144	8.1	BDL	519	BDL	BD L	346	295	226	43	28	0.06	0.03	27	21	252	38	6	BD L	1.0	23	BDL
13	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran	18.10.2022 / 19.10.2022	Patiala	GW 191	55	4145	8.0	BDL	832	BDL	BD L	472	402	303	42	48	0.2	0.8	49	32	291	89	4	BD L	2.1	46	BDL
14	adjoining-HP- Petrol Pump, at a distance of- Approx. at 200 from- M/s HMEEL Refinery-	11.10.2022 / 12.10.2022	Bathinda	GW- 177- (a)	70	4148	7.6	BDL	2270	BDL	BD	127	109	122	24	15	1.4	8.9	172	129	368	798	35	BD	42.8	82	BDL
15	Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.	11.10.2022 / 12.10.2022	Bathinda	GW- 178	100	4147	7.9	BDL	2234	BDL	BD	138 2	117 6	729	153	84	1.0	2.3	155	148	312	591	8	BD L	21.2	88	0.08
16	Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt. Bathinda.	11.10.2022 / 12.10.2022	Bathinda	GW- 179	60	4149	7.6	BDL	1186	BDL	BD	710	604	460	20	90	0.64	0.82	66	48	608	90.1	9	BD L	1.8	27	BDL

Monitoring Results of Ground Water Samples under NWMP 2022 (Metals)

Sr. no.	Point of Collection	Lab Sample No.	Sample Collected By RO	Depth in mts	Location Code	Fe mg/l	Zn mg/l	Cu mg/l	Ni mg/l	T. Cr mg/l	Pb mg/l	Cd mg/l	As mg/l	Hg mg/l
1	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	GW 9	SAS Nagar	27	2918	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

2	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	GW 10	SAS Nagar	30	2919	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura	GW 13	Patiala	21	4143	0.21	0.10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main	GW 11	Patiala	150	4144	0.12	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran	GW 12	Patiala	55	4145	0.16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	~~adjoining HP- Petrol Pump, at a distance of Approx. at 200 from M/s HMEL- Refinery-~~	GW-62	~~Bathinda~~	~~70~~	4148	~~0.10~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~
7	~~Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.~~	~~GW-64~~	~~Bathinda~~	~~100~~	4147	~~0.37~~	~~0.20~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~
8	~~Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt- Bathinda.~~	~~GW-65~~	~~Bathinda~~	~~60~~	4149	~~0.18~~	~~0.11~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~
9	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	GW 199	SAS Nagar	27	2918	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	GW 200	SAS Nagar	30	2919	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura	GW 190	Patiala	21	4143	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
12	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main	GW 189	Patiala	150	4144	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
13	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran	GW 191	Patiala	55	4145	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
14	~~adjoining HP- Petrol Pump, at a distance of Approx. at 200 from M/s HMEL- Refinery-~~	~~GW 177 (a)~~	~~Bathinda~~	~~70~~	4148	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~
15	~~Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.~~	~~GW-178~~	~~Bathinda~~	~~100~~	4147	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~
16	~~Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt- Bathinda.~~	~~GW-179~~	~~Bathinda~~	~~60~~	4149	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~

Year 2023

Sr. no.	Point of Collection	Date of collection / receipt in lab	Sample Collected By RO	GW Code	Depth in mts	Location Code	pH	Turbidity NTU	Conductivity µs/cm	CO ₂ mg/l	TSS mg/l	TDS mg/l	TFS mg/l	T.H as CaCO ₃ mg/l	Ca mg/l	Mg mg/l	F mg/l	NO ₃ as N mg/l	Cl mg/l	SO ₄ mg/l	Talk as CaCO ₃ mg/l	Na mg/l	K mg/l	PO ₄ mg/l	SAR	% Na	B mg/l
1	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	13/4/23 13/4/23	SAS Nagar	GW 311	30	2919	7.7	BDL	2148	BDL	BDL	129	110	1152	278	111	0.4	0.5	225	118	325	273	65	BDL	11.5	32	BD
2	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	13/4/23 13/4/23	SAS Nagar	GW 312	27	2918	7.1	BDL	1738	BDL	BDL	107	919	1065	258	102	0.5	0.5	214	82	310	183	31	BDL	7.7	26	BD
3	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura		Patiala		21	4143	Sample not collected																				
4	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main		Patiala		150	4144	Sample not collected																				
5	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran	28/6/23 29/6/26	Patiala	GW 345	55	4145	7.7	BDL	488	BDL	BDL	278	238	166	43	14	BDL	BDL	32	19	180	39	11	BDL	1.3	32	BDL
6	adjoining HP Petrol Pump, at a distance of Approx. at 200 from	30/6/23 1/7/23	Bathinda	GW-346	70	4148	7.7	BDL	1353	BDL	BDL	796	681	744	174	75	0.1	0.3	178	68	225	97	20	BDL	4.1	22	BDL

Monitoring Results of Ground Water Samples under NWMP 2023

Sr. no	Point of Collection	Date of collection / receipt in lab	Sample Collected By RO	GW Code	Depth in mts	Location Code	pH	Turbidity NTU	Conductivity µm	COD mg/l	TSS mg/l	TDS mg/l	TFS mg/l	T.H as CaCO ₃ mg/l	Ca mg/l	Mg mg/l	F mg/l	NO ₃ as N mg/l	Cl mg/l	SO ₄ mg/l	Total Hardness as CaCO ₃ mg/l	Na mg/l	K mg/l	PO ₄ mg/l	SAR	% Na	Boron mg/l
9	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	16/10/23 17/10/23	SAS Nagar	GW 411	30	2919	7.3	BDL	2480	BDL	BDL	1475	1255	1291	268	151	0.5	0.6	286	124	440	301	72	BDL	1.3	32	BDL
10	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	16/10/23 17/10/23	SAS Nagar	GW 412	27	2918	7.2	BDL	2030	BDL	BDL	1218	1041	1115	242	124	0.6	0.7	241	104	392	215	48	BDL	7.1	28	BDL
11	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rainura		Patiala		21	4143	Sample not collected																				

12	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main		Patiala		150	4144	Sample not collected																				
13	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran		Patiala		55	4145	Sample not collected																				
14	adjoining-HP Petrol Pump, at a distance of Approx. at 200 from M/s HMEEL Refinery	23/11/23 24/11/23	Bathinda	GW 444	70	4148	7.7	BDL	1331	BDL	BDL	798	681	774	181	78	0.3	0.6	184	77	238	102	22	BDL	1.3	22	BDL
Sr. no.	Point of Collection	Date of collection / receipt in lab	Sample Collected By RO	GW Code	Depth in mts	Location Code	pH	Turbidity NTU	Conductivity $\mu\text{S}/\text{cm}$	CO ₂ mg/l	TSS mg/l	TDS mg/l	TFS mg/l	T.H as CaCO ₃ mg/l	Ca mg/l	Mg mg/l	F mg/l	NO ₃ as N mg/l	Cl mg/l	SO ₄ mg/l	TALK as CaCO ₃ mg/l	Na mg/l	K mg/l	PO ₄ mg/l	SAR	% Na	B mg/l
15	Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.	23/11/23 24/11/23	Bathinda	GW 445	100	4147	7.3	BDL	1398	BDL	BDL	841	717	745	178	73	0.3	0.4	188	98	248	112	29	BDL	3.7	24	BDL
16	Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt. Bathinda.	23/11/23 24/11/23	Bathinda	GW 446	60	4149	7.3	BDL	1498	BDL	BDL	899	767	633	131	74	0.2	0.6	228	121	251	142	39	BDL	5.1	31	BDL

Monitoring Results of Ground Water Samples under NWMP 2023 (Metals)

Sr. no.	Point of Collection	Lab Sample No.	Sample Collected By RO	Depth in mts	Location Code	Fe mg/l	Zn mg/l	Cu mg/l	Ni mg/l	T. Cr mg/l	Pb mg/l	Cd mg/l	As mg/l	Hg mg/l
1	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	GW 311	SAS Nagar	27	2918	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	GW 312	SAS Nagar	30	2919	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura		Patiala	21	4143	Sample not collected								
4	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main		Patiala	150	4144	Sample not collected								
5	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran	GW 345	Patiala	55	4145	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	adjoining HP-Petrol Pump, at a distance of Approx. at 200 from M/s HMEL Refinery	GW 346	Bathinda	70	4148	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
7	Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.	GW 347	Bathinda	100	4147	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt. Bathinda.	GW 348	Bathinda	60	4149	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
9	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	GW 411	SAS Nagar	27	2918	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
10	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	GW 412	SAS Nagar	30	2919	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
11	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura		Patiala	21	4143	Sample not collected								
12	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main		Patiala	150	4144	Sample not collected								
13	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran		Patiala	55	4145	Sample not collected								
14	adjoining HP-Petrol Pump, at a distance of Approx. at 200 from M/s HMEL Refinery	GW 444	Bathinda	70	4148	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
15	Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.	GW 445	Bathinda	100	4147	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
16	Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt. Bathinda.	GW 446	Bathinda	60	4149	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

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Sr. no.	Point of Collection	Date of collection / receipt in lab	Sample Collected By RO	GW Code	Depth in mts	Location Code	pH	Turbidity NTU	Conductivity $\mu\text{S}/\text{cm}$	CO ₂ mg/l	TSS mg/l	TDS mg/l	TFS mg/l	T.H as CaCO ₃ mg/l	Ca mg/l	Mg mg/l	F mg/l	NO ₃ as N mg/l	Cl mg/l	SO ₄ mg/l	Talk as CaCO ₃ mg/l	Na mg/l	K mg/l	PO ₄ mg/l	SAR	% Na	B mg/l
1	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	2/4/24 3/4/24	SAS Nagar	GW 1	30	2919	8.3	BDL	2573	BDL	BDL	152	129	1343	277	158	0.7	0.7	291	129	448	310	77	BDL	13.1	32	BDL
2	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	2/4/24 3/4/24	SAS Nagar	GW 2	27	2918	7.5	BDL	2095	BDL	BDL	125	106	1151	248	129	0.6	0.5	246	109	397	219	51	BDL	7.2	28	BDL
3	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura	21/5/24 21/5/24	Patiala	GW 38	21	4143	7.8	BDL	510	BDL	BDL	298	254	148	41	11	BDL	BDL	45	31	183	40	8	BDL	1.7	36	BDL
4	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main	21/5/24 21/5/24	Patiala	GW 39	150	4144	8.0	BDL	448	BDL	BDL	265	227	117	32	9	BDL	BDL	35	28	178	40	7	BDL	1.7	41	BDL
5	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran	21/5/24 21/5/24	Patiala	GW 40	55	4145	7.4	BDL	487	BDL	BDL	293	251	181	46	16	BDL	BDL	35	21	187	41	9	BDL	1.7	32	BDL

6	adjoining HP Petrol Pump, at a distance of Approx. at 200 from M/s HMEL Refinery.	8/5/24 4/5/24	Bathinda	GW-29	70	4148	7.5	BDL	1309	BDL	BDL	783	665	776	177	81	0.2	0.2	181	71	233	101	21	BDL	4.3	21	BDL
7	Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.	8/5/24 9/5/24	Bathinda	GW-30	100	4147	7.7	BDL	1366	BDL	BDL	816	697	730	175	71	0.2	95	185	95	245	106	26	BDL	3.5	23	BDL
8	Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt. Bathinda.	8/5/24 9/5/24	Bathinda	GW-31	60	4149	7.6	BDL	1433	BDL	BDL	863	735	619	124	75	0.1	119	215	119	249	135	34	BDL	4.8	31	BDL

Sr. no .	Point of Collection	Date of collection / receipt in lab	Sample Collecte d By RO	GW Cod e	Dept h in mts	Locatio n Code	pH	Turb . NTU	Cond μs/c m	CO D mg/l	TSS mg/ l	TD S mg/l	TFS mg/ l	T.H as CaCO 3 mg/l	Ca mg/ l	Mg mg/ l	F mg/ l	NO3 as N mg/ l	Cl mg/ l	SO4 mg/ l	Talk as CaCO 3 mg/l	Na mg/ l	K mg/ l	PO4 mg/l	SA R	% N a	B mg/l
9	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar		SAS Nagar		30	2919	Sample Not Collected																				
10	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.		SAS Nagar		27	2918	Sample Not Collected																				
11	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura		Patiala		21	4143	Sample Not Collected																				

12	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main		Patiala		150	4144	Sample Not Collected																									
13	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran		Patiala		55	4145	Sample Not Collected																									
14	adjoining HP Petrol Pump, at a distance of Approx. at 200 from M/s HMEL Refinery	8/11/2024 8/11/2024	Bathinda	GW-230	70	4148	7.4	<1.0	1281	<5	<5	835	710	803	181	85	0.2	0.3	183	75	245	105	27	BDL	2.5	23	BDL					
15	Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda	8/11/2024 8/11/2024	Bathinda	GW	100	4147	7.7	<1.0	1324	<5	<5	860	731	759	180	75	0.2	0.2	188	98	252	109	29	BDL	2.6	32	BD					
16	Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt. Bathinda	8/11/2024 8/11/2024	Bathinda	GW	60	4149	7.7	<1.0	1410	<5	<5	917	781	648	129	79	0.4	0.4	221	124	258	142	37	BDL	3.2	34	BD					

Monitoring Results of Ground Water Samples under NWMP 2024 (Metals)

Sr. no.	Point of Collection	Lab Sample No.	Sample Collected By RO	Depth in mts	Location Code	Fe mg/l	Zn mg/l	Cu mg/l	Ni mg/l	T. Cr mg/l	Pb mg/l	Cd mg/l	As mg/l	Hg mg/l
1	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar	GW 1	SAS Nagar	27	2918	0.28	0.18	BDL	BDL	BDL	BDL	BDL	BDL	BDL

2	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.	GW 2	SAS Nagar	30	2919	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
3	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura	GW 38	Patiala	21	4143	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
4	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main	GW 39	Patiala	150	4144	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
5	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran	GW 40	Patiala	55	4145	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
6	~~adjoining HP- Petrol Pump, at a distance of Approx. at 200 from M/s HMEL- Refinery-~~	GW 29	~~Bathinda~~	70	4148	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
7	~~Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.~~	GW 30	~~Bathinda~~	100	4147	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
8	~~Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt- Bathinda.~~	GW 31	~~Bathinda~~	60	4149	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
9	Hand pump installed at Railway crossing, Lalru, Teh. Dera Bassi SAS Nagar		SAS Nagar	27	2918	Sample Not Collected								
10	Hand pump near Peer Baba Samadh, Bhankarpur, Tehsil Dera Bassi, Distt. SAS Nagar.		SAS Nagar	30	2919	Sample Not Collected								
11	Piezometer between Ash dyke & water reservoir, Nabha Power Limited, Village Nalash, Rajpura		Patiala	21	4143	Sample Not Collected								
12	Piezometer of M/s Patiala Distillers Pvt. Ltd., Village Main		Patiala	150	4144	Sample Not Collected								
13	Submersible installed in the premises of Baba Dramaya Ji Nath Mandir at village Rasouli (Sagar Para Drain meeting with river Ghaggar) Tehsil Patran		Patiala	55	4145	Sample Not Collected								
14	~~adjoining HP- Petrol Pump, at a distance of Approx. at 200 from M/s HMEL- Refinery-~~	GW 230	~~Bathinda~~	70	4148	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~
15	~~Gurukul College near Ash Dykes of Guru Nanak Dev Thermal Power Plant, Bathinda.~~	GW 231	~~Bathinda~~	100	4147	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~
16	~~Petrol pump near M/s Guru Hargobind thermal plant, Lehra Mohabbat, Distt- Bathinda.~~	GW 232	~~Bathinda~~	60	4149	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~<0.1~~	~~BDL~~	~~BDL~~	~~BDL~~	~~BDL~~

Annexure C - List of 13 major drains directly discharging into river Ghaggar

Sno	Name of the drain	Point of origin	Approx. Length (in Km)	Coordinates at which the drain meets river Ghaggar	Location at which it meets river Ghaggar	Approx. Discharge (MLD)
1.	Sukhna Choe	Sukhna Lake	8.17	30° 36' 49" N 76° 50' 09" E	450 m upstream of Bhankhapur Bridge	105
2.	Dera Bassi Choe	Near Village Haripur Hinduan, Dera Bassi	8.75	30° 36' 13" N 76° 48' 51" E	Near upstream of Village Satabgarh	17.5
3.	Jharmal Choe	Near village Rampur Sainian, Tehsil Dera Bassi, Distt. SAS Nagar	22.86	30° 28' 27" N 76° 46' 11" E	Near Village Tiwana	17.5
4.	Basauli Drain	Near Village Jaula Khurd, Distt. SAS Nagar	24.39	30° 26' 39" N 76° 44' 54" E	Near Village Sadhanpur	12.5
5.	Bagna Drain	Near Village Salempur, Distt. SAS Nagar	19.5	30.3397 76.6986	Village Nanheri, Rajpura	-
6.	Pachisdara Drain (Dakansu Choe)	Near PCS, Sector-2, Chandigarh under the name of N-choe	22	30.305197 76.627918	Near Village Sarala-Khurd	125
7.	Patiala Nadi	Village Cholti Kheri, Distt. Fatehgarh Sahib	73	30.078934 76.243909	Village Ratanheri	150
8.	Sagarpara Drain	Kurkshetra (Haryana)	7.92	29.8975741 76.169735	Village Sagara	180
9.	Kaithal Drain	From Keorak, Distt. Kaithal (Haryana)	6.4	29° 50' 50" N 76° 06' 00" E	Near Khanauri Bridge	15
10.	Jhambowali choe	Village Chanarthal Kalan, Distt. Fatehgarh Sahib	72	29.8291 76.0011	Village Chandu, Tehsil Moonak	32.5
11.	Lehragagga Main	Near Kalajar	67	29° 50' 03" N 75° 45' 41" E	Near Village Bakshiwala, Distt. Sangrur	82.5
12.	Sirhind Choe	Near Bassi Pathana	166	29.7460 75.4726	Near Village Kheri, Haryana	245 300
13.	Miranpur Choe	Near Village Haripur, Sub Tehsil Ghanour	58.69	30.0980 76.3069	Near Village Khambera, Haryana	125

Note: Analysis of water of two points of origin i.e. at Sr. No. 1 & 8 has been carried out, whereas, for other points the same is to be determined in due course of time.

Annexure D - List of 29 creeks discharging into main drains

Sr. No.	Name of the creek
1.	Drain passing through K-area
2.	Singh Nallah
3.	Gazipur Drain
4.	Dhabi Nallah
5.	Banur Drain
6.	Chhoti Nadi
7.	Khadoli Drain
8.	Jacob Drain
9.	Model Town Drain
10.	Kalwano Drain
11.	L-6 Drain
12.	Nabha Drain
13	Sangrur Drain
14	Bareta Drain
15	Ladal Drain
16	Mander Drain
17	Toderpur Drain
18	Hargobindpura Datewas Drain
19	Khiwa Sahajada Drain
20	Dodra Drain
21	Bahadur Singh Wala Drain
22	Balian Drain
23	Bhagwanpura Link Drain
24	Dhuri Drain
25	Sahoke Main Drain
26	Jassarwal Drain
27	Buggar Link Drain
28	Shekhupura Adalatipura Drain
29	Hassanpura Drain

Annexure E - List of urban areas discharging directly/indirectly into river Ghaggar

Sr No	Name of the source	Approx. Discharge (KLD)	Remarks
1	MC, Zirakpur, SAS Nagar Mohali	74580	STP of 17 MLD capacity installed, another STP of 55 MLD capacity proposed.
2	M.C., Moonak, Distt. Sangrur	3000	STP of 3 MLD capacity installed
3	MC, Sardulgarh, Distt. Mansa	3340	STP of 4 MLD capacity installed
4	K Area & Ghazipur, Zirakpur	1180	~~To be connected to STP of 17 MLD capacity at Zirakpur~~ To be connected to proposed STP of 55 MLD capacity of Zirakpur
5	M.C., Dera Bassi	13200	STP of 4 MLD capacity installed, 3 STPs of cumulative capacity of 14 MLD proposed.
6	MC, SAS Nagar	31320	STP of 68.19 MLD (15 MGD) capacity installed
7	MC, Banur	3350	2 STPs of 4 MLD and 0.5 MLD capacity installed
8	MC, Rajpura and Focal Point area of Rajpura	15720	2 STPs of 7 MLD and 10 MLD capacity installed
9	MC, Bassi Pathana	3000	STP of 3.0 MLD capacity installed
10	MC, Amloh	2560	STP of 3.0 MLD capacity installed
11	MC, Bhadson, Distt. Patiala	1250	STP of capacity 2.0 MLD is proposed
12	MC, Nabha	5500	STP of 12.0 MLD capacity installed
13	MC, Bareta	2750	STP of 3 MLD capacity installed
14	MC, Budhlada, Distt. Mansa	5750	STP of 6.5 MLD capacity installed
15	M.C., Dhuri, Distt. Sangrur	9600	STPs of 5 MLD is being set up and & STP of 6.5 MLD capacity is proposed
16	M.C., Bhikhi, Distt. Mansa	3000	STP of 3.0 MLD capacity is installed
17	M.C. Sangrur	14400	STP of 4 MLD capacity installed and STP of 11 MLD capacity is proposed
18	M.C. Sunam	11760	STP of 8 MLD capacity installed
19	MC Samana	9360	STP of 10 MLD capacity installed, another STP of 8.0 MLD capacity proposed
20	MC Patran	4800	STP of 4 MLD capacity installed
21	MC Mandi Gobindgarh	14400	STP 25 MLD capacity installed and STP of 12 MLD capacity is installed
22	MC Lehragaga	3900	STP of 4 MLD capacity installed

23	MC Patiala and Urban Estate Patiala	120000	STPs of 46 MLD, 15 MLD, 13 MLD (PUDA) and 10 MLD capacities installed
24	Nagar Panchayat, Longowal, Distt. Sangrur	4160	STP of 5.0 MLD capacity installed
25	Municipal Council, Sanour, Distt. Patiala.	3600	Discharge taken under Badi Nadi Choti Nadi Project of STP of 26 MLD capacity by PDA, Patiala
26	Sewage of Nagar Panchaya, Khanauri	2300	STP of 3 MLD capacity installed

27	Nagar Panchayat, Boha, Distt. Mansa	1940	STP of 2 MLD capacity installed
28	Nagar Panchayat, Lalru, Distt. SAS Nagar.	5760	STPs of 1.5 MLD and 1.0 MLD capacity installed and 3 STPs of 3.5, 3.0 MLD and 1.0 MLD capacities are proposed
29	Nagar Panchayat, Cheema Distt. Sangrur	2100	STP of 2.5 MLD capacity is proposed
30	Sirhand Mandi, Sirhind	9960	STP of capacity 5 MLD installed and 2 STPs, each of capacities 4 MLD each are being set up
31	Green City, Mamta Enclave / Baltana Area	50	To be connected with proposed STP of capacity 55 MLD to be installed
32	~~Domestic effluent of industry through storm water sewer of Focal Point~~	20	~~The industries will connect by 15.1.19.~~
32	Industrial Area, Focal point Dera Bassi	500	STP of 2 MLD capacity installed
34	~~Silver City~~	480	~~STP installed (TREATED WASTEATER DISCHARGED ONTO LAND FOR PLANTATION)~~
35	~~Dappar Colony~~	100	~~STP of 0.2 MLD capacity Proposed~~ Sewer connected with new STP of capacity 1 MLD installed by MC Lalru
36	~~Focal Point, Patiala~~	1250	~~STP not installed~~ Connected with 10 MLD capacity STP Ablawal
37	~~Outlet of Shanti Nagar (village Falauli) & Virk Colony outside MC limits of Patiala~~	150	~~STP not installed~~ Its rural area and not urban area
38	~~Outlet of treated sewage of Urban Estate Patiala~~	5000	~~STP of 13 MLD capacity installed~~ (Included at Sr. No. 23 above)
33	Outlet of Storm water carrying sewage / sullage of habitation area near Patiala Badi Nadi	1875	STP not installed. Points tapped, would be connected to STP of 26 MLD of Badi Nadi Choti Nadi

			Project.
34	Two no. Nalas falling into Badi Nadi from Internal area of Patiala City	3000	~~STP not installed~~ STP of 13 MLD of PUDA installed which has an outfall in one nala and STP not installed for other nala carrying storm water and sewer from internal area of the city
41	~~Badha Road, Tej Bagh Colony, Patiala (Near slaughter House)~~	~~1250~~	Connected with 61 MLD STPs at Shermajra.
42	~~SST Nagar, Patiala Near, Chotti Masjid Muslim Colony~~	~~750~~	Connected with 61 MLD STPs at Shermajra.
43	~~Shree Santoshi Mata Mandir area~~	~~1675~~	Connected with 61 MLD STPs at Shermajra.
44	~~A part of the sewage of Rajpura town located towards Patiala side~~	~~6000~~	Connected with 10 MLD STP of Rajpura
45	~~Outlet of Dhillon Colony & Kesar Bagh, Patiala~~	~~6~~	Connected with 61 MLD STPs at Shermajra.
46	~~Moti Bagh, Patiala & Daru Kutia area~~	~~6~~	Connected with 61 MLD STPs at Shermajra.
47	~~Dakala, Terin, Bhanari, Main Road, Sullar Colony-~~	~~30~~	~~STP not installed~~ Rural area and not urban area
35	Outlet of MES Patiala	5500	STP of 6 MLD capacity is ~~Proposed~~ installed and treated water is discharged into plantation within MES area
36	~~Outlet of STP Ablawal (10 MLD)~~	~~10000~~	~~STP of 10 MLD capacity installed~~ (Already included at Sr. no. 23 above)
50	~~Outlet of Patran STP~~	~~2800~~	~~STP of 4 MLD capacity installed~~ (Duplicate entry, Already mentioned at Sr. No. 20 above)
36	Outlet of Devigarh	1780	STP of 2.5 MLD capacity proposed

Sr No	Name of the source	Approx. Discharge (KLD)	Remarks
			at Patran
37	Focal Point Mandi Gobindgarh	3000	STP of 3 MLD capacity installed

52	Bhindran (Th. B/pura Drain) (Distt. Sangrur)	159	STP not installed
	Total	362945	

Annexure F - Summary of rural areas discharging (directly/indirectly) into river Ghaggar

Sr. No	Village category	No. of Villages	Discharge (MLD)
1.	Discharge more than 300 KLD	113	62.952
2.	Discharge between 100 KLD and 300 KLD	171	31.272
3.	Discharge less than 100 KLD	105	5.213
Total		389	99.437

List of NGT phase 1 Villages					
Overall S.No.	Name of district	Name of Villages	Discharge in KLD	Population	Current Waste water treatment system installed
PATIALA					
1	Patiala	Rasoli	320	3200	Not provided
2	Patiala	Shatrana	3447	34470	Not provided
3	Patiala	Matoli	520	5200	Not provided
4	Patiala	Baras	933	9330	Not provided
5	Patiala	Chunagran	690	6900	Yes, Thapar Model
6	Patiala	Hariau Khurd	446	4460	Yes, Thapar Model
7	Patiala	Hariau Kalan	1134	11340	Yes, Thapar Model
8	Patiala	Tambuwalla	304	3040	Yes, Thapar Model
9	Patiala	Hamjheri	831	8310	Yes, Thapar Model
10	Patiala	Phagan Majra	570	5700	Yes, Thapar Model
11	Patiala	Doun Kalan	940	3482	Not provided
12	Patiala	Darola	250	927	Yes, Thapar Model
13	Patiala	Kheri Manian	218	811	Yes, Thapar Model
14	Patiala	Devi Nagar Sivaye Singh Wala	359	3590	Yes, Thapar Model
15	Patiala	Bhootgarh	674	6740	Yes, Thapar Model
16	Patiala	Kakralla	212	2120	Not provided

17	Patiala	Jeonpura	145	1450	Under construction
18	Patiala	Kalwanu	1331	13310	Yes, Thapar Model
19	Patiala	Manoli Surat	668	6680	Yes, provided
20	Patiala	Maru	451	4510	Yes, provided
21	Patiala	Hasanpur Kamboj	320	3200	Under construction
22	Patiala	Rurkibudhsingh	355	3550	Yes, provided
23	Patiala	Mehmudpur	315	3150	Yes, provided
24	Patiala	Ratanheri	326	3260	Yes, provided
25	Patiala	Karimnagar Urf Chicharwala	807	8070	Yes, provided
26	Patiala	Rewas Brahmna	323	3230	Yes, Thapar Model
27	Patiala	Dhurad	335	3350	Not provided
28	Patiala	Main	590	5900	Yes, Thapar Model
29	Patiala	Bhanri	497	4970	Not provided
30	Patiala	Harinagar Khedki	481	4810	Under construction
31	Patiala	Khanewal	756	7560	Yes, Thapar Model
32	Patiala	Khaspur	305	3050	Yes, Thapar Model
33	Patiala	Jhambali Khas	132	1320	Not provided
34	Patiala	Balamgarh	324	3240	Yes, Thapar Model
35	Patiala	Kalwa	320	3200	Yes, Thapar Model
36	Patiala	Kahangarh Bhootna	499	4990	Yes, Thapar Model
37	Patiala	Bhedpuri	307	1138	Yes, Thapar Model

38	Patiala	Badla	109	405	Yes, provided
39	Patiala	Bhasmara	192	710	Yes, provided
40	Patiala	Mirjapur	143	440	Not provided
SANGRUR					
41	Sangrur	Balran	460	4600	Yes, Thapar Model
42	Sangrur	Munshiwal	53	530	Yes, Thapar Model
43	Sangrur	Kalajhar	141	1410	Yes, Thapar Model
44	Sangrur	Bharaj	66	660	--
45	Sangrur	Lakhewal	43	430	Yes, Thapar Model
46	Sangrur	Channo	126	1260	Yes, Thapar Model
47	Sangrur	Rasoolpur Chana	44	440	Yes, Thapar Model
48	Sangrur	Kheri Chandwan	52	520	Yes, Thapar Model
49	Sangrur	Santokh Pura	31	310	Yes, Thapar Model
50	Sangrur	Jalan	85	850	Yes, Thapar Model
51	Sangrur	Jollian	74	740	Yes, Thapar Model
52	Sangrur	Fatehgarh bhadson	96	960	Yes, Thapar Model
53	Sangrur	Panwan	101	1010	Yes, Thapar Model
54	Sangrur	Sakroudi	142	1420	Yes, Thapar Model
55	Sangrur	Gharachon	674	6740	Yes, Thapar Model
56	Sangrur	Sajuma	60	600	Yes, Thapar Model
57	Sangrur	Sheron	319	3190	Yes, PPCB Model
58	Sangrur	Sefipur Kalan	302	3020	--
59	Sangrur	Satoj	229	2290	Yes, Thapar Model

60	Sangrur	Changal	156	1560	Yes, Thapar Model
61	Sangrur	Mehsampur	76	760	Yes, Thapar Model
62	Sangrur	Dittupur	18	180	Yes, Thapar Model
63	Sangrur	Nandgarh	52	520	Yes, Thapar Model
64	Sangrur	Jhaloor	227	2270	Yes, Thapar Model
65	Sangrur	Makror Sahib	268	2680	Yes, Thapar Model
66	Sangrur	Nawa Gaon	186	1860	Yes, Thapar Model
67	Sangrur	Bhai Ki Pishor	243	2430	Yes, Thapar Model
68	Sangrur	kamalpur	226	2260	Yes, Thapar Model
69	Sangrur	Kammo Majra	87	--	Yes, PPCB Model
70	Sangrur	Khetla	288	2880	Yes, Baba Seechewal Model
71	Sangrur	Dhandial	129	--	Yes, Thapar Model
72	Sangrur	Ghabdan	233	--	Yes, Thapar Model
73	Sangrur	Khurana	114	1500	Yes, Thapar Model
74	Sangrur	Humbalwas	310	2000	Yes, Thapar Model
75	Sangrur	Kakarwal	80	-	--
76	Sangrur	Sarron	270	2700	Yes, Thapar Model
77	Sangrur	Dhadogal	203	2030	Yes, Thapar Model
78	Sangrur	Dhandra	154	1540	Yes, Thapar Model
79	Sangrur	Meemsa	264	2640	Yes, Thapar Model
80	Sangrur	Punawal	233	2330	---
81	Sangrur	Chounda	45	450	Yes, Thapar Model
82	Sangrur	Maanwala	192	1920	Yes, Thapar Model

83	Sangrur	Rupaheri	93	930	Yes, Thapar Model
84	Sangrur	Bangan wali	81	810	Yes, Thapar Model
85	Sangrur	Jainpur	78	780	--
86	Sangrur	Dharamgarh	118	1180	Yes, Thapar Model
87	Sangrur	Bangan	183	--	Yes, Thapar Model
88	Sangrur	Bhindran	159	--	Yes, Thapar Model
89	Sangrur	Mangwal	635	--	Yes, Thapar Model
90	Sangrur	Fatehgarh Channa	113	1130	Yes, Thapar Model
SAS NAGAR					
91	SAS Nagar	Kheri Gujran	180	1800	Not provided
92	SAS Nagar	Jaula Khurd	100	1000	Not provided
FATEHGARH SAHIB					
93	Fatehgarh Sahib	Badali	73	730	--
94	Fatehgarh Sahib	Mahadiyan	107	1070	--
MANSA					
95	Mansa	Rorki	105	1050	Yes, Baba Seechewal Model
96	Mansa	Jhanda Khurd	210	2100	Yes, PPCB Model
97	Mansa	Bhagwanpur Higna	10	1000	Yes, Thapar Model
BARNALA					
98	Barnala	Bhaini Mehraj	326		Yes, Thapar Model
		Total	31602		

NGT Phase 2					
Overall S.No.	Name of district	Name of Villages	Discharge in KLD	Population	Current Waste water treatment system installed
BARNALA					
1	Barnala	Badbar	479	6842	Yes, Thapar Model
2	Barnala	Harigarh	274	2740	Not provided
MANSA					
3	Mansa	Ahmedpur	50	500	Not provided
4	Mansa	Hassanpur	7	70	Yes, Thapar Model
5	Mansa	Heron kalan	295		Not provided
6	Mansa	Malkon	7	70	Not provided
7	Mansa	Akkanwali	50	500	Yes, Thapar Model
8	Mansa	Jalwera	5	50	Not provided
9	Mansa	Dhalewan	20	200	Not provided
10	Mansa	Khiwa Khurd	2	20	Not provided
11	Mansa	Dhaipai	2	20	Not provided
12	Mansa	hodla kalan	157		Not provided
13	Mansa	Reond Khurd	15	150	Yes, Thapar Model
14	Mansa	Reond Kalan	5	50	Yes, Thapar Model
15	Mansa	Kishangarh	70	700	--
16	Mansa	Manderna	50	500	Not provided
17	Mansa	Gamiwala	3	30	Not provided
18	Mansa	Gamiwala	3	30	Not provided

19	Mansa	Maghanian	10	100	Yes, Thapar Model
20	Mansa	Saidewala	2	20	Not provided
21	Mansa	Samaon	18	180	Not provided
22	Mansa	Gurthri	7	70	Not provided
23	Mansa	Khiva Kalan	15	150	Not provided
24	Mansa	Gurne Khurd	12	120	Yes, Thapar Model
SANGRUR					
25	Sangrur	Tibbi Ravidaspura	96	1000	Not provided
26	Sangrur	Chathe Nakte	45	1000	Not provided
27	Sangrur	Akalgarh	45	1000	Not provided
28	Sangrur	Khurani	52	1000	Not provided
29	Sangrur	Ramnagar Sibian	88	1500	Not provided
30	Sangrur	Langrian	122	1220	Not provided
31	Sangrur	Harchandpura	132	1320	Not provided
32	Sangrur	Akoi Sahib	116	1160	Yes, PPCB Model
33	Sangrur	Sahoke	140	1400	Not provided
34	Sangrur	Loha Khera	211	2110	Not provided
35	Sangrur	Ratoke	79	790	Not provided
36	Sangrur	Takipur	80	800	Not provided
37	Sangrur	Togalwal	184	1840	Not provided
38	Sangrur	Dhura	247	2470	Yes, Thapar Model
39	Sangrur	Issi	115	1150	Not provided
40	Sangrur	Kheri Jattan	103	1030	Yes, Thapar Model
41	Sangrur	Pedhni Kalan	117	1170	--
42	Sangrur	Jahangir	150	1500	--

43	Sangrur	Tolawal	268	2680	Not provided
44	Sangrur	Banbhura	281	2810	--
45	Sangrur	Bardwal	244	2440	--
46	Sangrur	Kaheru	181	1810	--
47	Sangrur	Natt	109	1090	--
48	Sangrur	Dhadrian	206	2060	--
49	Sangrur	Dialgarh	113	1130	--
50	Sangrur	Mander Kalan	144	1440	Not provided
51	Sangrur	Bhaini Ganduan	66	660	Not provided
52	Sangrur	Changli Wala	109	1090	Not provided
53	Sangrur	Khokhar Khurd	156	1560	Not provided
54	Sangrur	Jalalgarh	49	490	Not provided
55	Sangrur	Mohamadpur Rasaldar	33	330	Not provided
56	Sangrur	Mohamadpura (Nawa Pind)	34	340	Not provided
57	Sangrur	Neamatpura	93	930	Not provided
58	Sangrur	Lohar Majra	34	340	Not provided
59	Sangrur	Sherpur Sodian	55	550	Not provided
60	Sangrur	Jakhlan	99	990	Not provided
61	Sangrur	Thaleshan	85	850	Not provided
62	Sangrur	Badrukhan	73	730	Not provided
63	Sangrur	Kila Bharian	79	790	Not provided
64	Sangrur	Shahpur Their	64	640	Not provided
65	Sangrur	Shahpur	45	450	--
66	Sangrur	Dohla	74	740	Not provided

67	Sangrur	Burj Sedha	25	250	Not provided
68	Sangrur	Babbanpur	41	410	--
69	Sangrur	Kanjhli	94	940	--
70	Sangrur	Batuha	75	750	--
71	Sangrur	Ruldu Singh Wala	68	680	--
72	Sangrur	Dullat Wala	26	260	--
73	Sangrur	Buggar	86	860	--
74	Sangrur	Daulatpur	70	700	--
75	Sangrur	Sheron Model Town-1	710	7100	Not provided
76	Sangrur	Nayak Basti Ladda	315	3150	Not provided
77	Sangrur	Gurdaspura Gurthali	229	2290	--
78	Sangrur	Ramgarh Jwande	249	2490	Not provided
79	Sangrur	Gurdaspura Basti	201	2010	Not provided
80	Sangrur	Bishanpura Akalgarh	45	450	--
81	Sangrur	Bakhora Kalan	316	3200	Not provided
82	Sangrur	Fulad	120	1200	Yes, Thapar Model
83	Sangrur	Chandu	112	1000	Not provided
84	Sangrur	Sihal	106	2000	Not provided
85	Sangrur	Alisher	111	3000	Not provided
86	Sangrur	Gobindpura Jawaharwala	130	2500	Not provided
87	Sangrur	Ramgarh Sandhuan	186	3500	Not provided
88	Sangrur	Kalbanjara	187	3000	Not provided

89	Sangrur	Sekhuwas	193	3000	Not provided
90	Sangrur	Rorewal	133	2000	Not provided
91	Sangrur	Harigarh	142	2500	Not provided
92	Sangrur	Ubhia	185	2000	Not provided
93	Sangrur	Diwargarh Kemper	163	2500	Not provided
94	Sangrur	Kadial	202	2200	Not provided
95	Sangrur	Gaggarpur	188	1500	Not provided
96	Sangrur	Bishanpura	126	1500	Not provided
97	Sangrur	Dhaliwalwas	154	1500	Not provided
98	Sangrur	Ghasiwal	156	2000	Not provided
99	Sangrur	Kotra Amru	110	2500	Not provided
100	Sangrur	Jakhelpalwas	120	5000	Not provided
101	Sangrur	Lehal Kalan	416	1000	Yes, Thapar Model
102	Sangrur	Bhotal Kalan	391	2500	Not provided
103	Sangrur	Mandvi	427	3000	Yes, Thapar Model
104	Sangrur	Shadihari	344	2000	Not provided
105	Sangrur	Rogla	411	4000	Not provided
106	Sangrur	Chowas	319	5000	Not provided
107	Sangrur	Mehlan	391	4000	Not provided
108	Sangrur	Model Town Mehlan-1	218	1000	--
109	Sangrur	Model Town Mehlan-2	242	1000	--
110	Sangrur	Hariaou	356	3000	Not provided
111	Sangrur	Ganduan	366	4000	Not provided

112	Sangrur	Sangatiwala	428	2000	Not provided
113	Sangrur	Chajjli	935	10000	Not provided
114	Sangrur	Khadial	450	2500	Not provided
115	Sangrur	Chattha nanhera	358	2000	Not provided
116	Sangrur	Chahhar	428	3000	Yes, Thapar Model
117	Sangrur	Mauran	336	1500	Not provided
118	Sangrur	Ladda	288	2500	Not provided
119	Sangrur	Benra	315	3000	Not provided
120	Sangrur	Ubhewal	489	4000	Yes, Thapar Model
121	Sangrur	Duggan	364	5000	Not provided
122	Sangrur	Jharon	330	4000	Yes, Thapar Model
123	Sangrur	Chotian	232	1500	Yes, Thapar Model
124	Sangrur	Bhamabaddi	79	1500	Yes, Thapar Model
125	Sangrur	Kheri	215	1500	Yes, Sanjha Jal Talab
126	Sangrur	Tungan	169	1500	Yes, Thapar Model
127	Sangrur	Kanoi	103	3000	Not provided
128	Sangrur	Kular Khurd	267	4000	--
129	Sangrur	Rattakhera	141	2000	Not provided
130	Sangrur	Ladal	193	1500	Yes, Thapar Model
131	Sangrur	Gidriani	162	3000	Not provided
132	Sangrur	Gaga	228	2000	Not provided
133	Sangrur	Fatehgarh	171	3000	Not provided
134	Sangrur	Maidewas	113	2000	Not provided
135	Sangrur	Chajjla	145	3000	Not provided

136	Sangrur	Gobindgarh Jejjian	218	1500	Not provided
137	Sangrur	Nangla	236	1500	Yes, Thapar Model
138	Sangrur	Khokhar Kalan	159	2000	Not provided
139	Sangrur	Dhandoli Kalan	176	2500	Not provided
140	Sangrur	Janal	293	3000	Not provided
141	Sangrur	Taranji Khera	159	1000	Yes, PPCB Model
142	Sangrur	Toorbanjara	154	1500	Not provided
143	Sangrur	Gujjran	114	1500	Yes, Thapar Model
144	Sangrur	Jhall	134	1000	Not provided
145	Sangrur	Gurne	58	3000	Yes, Thapar Model
146	Sangrur	Bakhora Khurd	89	2000	Not provided
147	Sangrur	Rampura Jawaharwala	100	1500	Not provided
148	Sangrur	Khai	92	1500	--
149	Sangrur	Gehlan	57	2000	Not provided
PATIALA					
150	Patiala	Isharheri	405	4050	Under construction
151	Patiala	Deogarh	584	5840	Not provided
152	Patiala	Kularan	1810	18100	Yes, Thapar Model
153	Patiala	Ghagroli	323	3230	Not provided
154	Patiala	Mangewal	321	3210	Yes, Thapar Model
155	Patiala	Sohndewal	334	3340	--
156	Patiala	Chaswal	433	4330	--
157	Patiala	Bhari Panechan	413	4130	--
158	Patiala	Rathian	405	4050	Not provided

159	Patiala	Khuda	487	4870	Not provided
160	Patiala	Mehmadpur	221	2210	Yes, provided
161	Patiala	Fatehpur	247	2470	Not provided
162	Patiala	Tarora Kalan	216	2160	Not provided
163	Patiala	Tarora Khurd	132	1320	Not provided
164	Patiala	Basti Bahmana	119	1190	Not provided
165	Patiala	Dodra	274	2740	Not provided
166	Patiala	Sehjpur Kalan	241	2410	Yes, Thapar Model
167	Patiala	Sehjpur Khurd	254	2540	Not provided
168	Patiala	Dharmgarh	128	1280	Yes, Thapar Model
169	Patiala	Balla	227	2270	Not provided
170	Patiala	Bolri	105	1050	Not provided
171	Patiala	Ganour	154	1540	Not provided
172	Patiala	Gangrola	236	2360	Yes, Thapar Model
173	Patiala	Dolatpur Fakira	136	1360	Yes, Thapar Model
174	Patiala	Sassi Brahmna	186	1860	Yes, Thapar Model
175	Patiala	Mohalgarh	228	2280	Not provided
176	Patiala	Kharabgarh	292	2920	Not provided
177	Patiala	Chuhath	244	2440	Yes, Thapar Model
178	Patiala	Dudan Gujran	240	2400	Yes, Thapar Model
179	Patiala	Khijjerpur	105	1050	--
180	Patiala	Shamashpur	113	1130	--
181	Patiala	Daulatpur	150	1500	Not provided
182	Patiala	Mehmoodpur Araian	52	520	Yes, Thapar Model

183	Patiala	Faloli	83	830	Not provided
184	Patiala	Jalalpur	32	320	Under construction
185	Patiala	Katakheri	97	970	Yes, Thapar Model
186	Patiala	Haripura	37	370	Yes, Thapar Model
187	Patiala	Jhagir	251	2510	Yes, Thapar Model
188	Patiala	Rampur	349	3490	Yes, provided
189	Patiala	Hadana	488	4880	Yes, provided
190	Patiala	Marori	754	7540	Yes, provided
191	Patiala	Arnetu	652	6520	Yes, provided
192	Patiala	Sher Majra	501	5010	Yes, Thapar Model
193	Patiala	Bhanra	688	6880	Not provided
194	Patiala	Langroi	375	3750	Not provided
195	Patiala	Mavi Sappan	397	3970	Yes, Thapar Model
196	Patiala	Train	433	4330	Yes, Thapar Model
197	Patiala	Dhabi Gujran	904	9040	Yes, Thapar Model
198	Patiala	Dugal Kalan	1008	10080	Yes, Thapar Model
199	Patiala	Dugal Khurad	921	9210	Yes, Thapar Model
200	Patiala	Daroli	267	2670	Yes, Thapar Model
201	Patiala	Banwala	432	4320	Yes, Thapar Model
202	Patiala	Kahngarh Ghracho	400	4000	Yes, Thapar Model
SAS NAGAR					
203	SAS Nagar	Tiwana	130	1300	Not provided
		Total	43621		

NGT PHASE 3					
PATIALA					
Overall S.No.	Name of district	Name of Villages	Discharge in KLD	Population	Current Waste water treatment system installed
1	Patiala	Chamaru	457	1691	Not provided
2	Patiala	Ramnagar Chunni Wala	1202	4453	Yes, provided
3	Patiala	Seona Kath	825	3054	Yes, provided
4	Patiala	Tepla	818	3029	Not provided
5	Patiala	Kaloli	378	1400	Not provided
6	Patiala	Kauli	629	2328	Not provided
7	Patiala	Alampur	312	1157	Not provided
8	Patiala	Bhateri	353	1310	Not provided
9	Patiala	Doun Khurd	359	1330	Not provided
10	Patiala	Kalar Bhani	471	1743	Not provided
11	Patiala	Passiana	809	2998	Yes, Thapar Model
12	Patiala	Dakala	1240	4594	Yes, Thapar Model
13	Patiala	Kathmathi	311	1155	Not provided
14	Patiala	Kalyan	614	2277	Not provided
15	Patiala	Gajumajra	508	1885	Not provided
16	Patiala	Lalochhi	949	3517	Not provided

17	Patiala	Majri	477	1770	Not provided
18	Patiala	Danipur	477	1642	Yes, Thapar Model
19	Patiala	Gajipur	446	1654	Not provided
20	Patiala	Bhamna	1296	4800	Not provided
21	Patiala	Nanheri	196	726	Yes, provided
22	Patiala	Samaspur	196	727	Not provided
23	Patiala	Utsar	225	834	Not provided
24	Patiala	Mandi/Pur	186	687	Not provided
25	Patiala	Sirkapra	219	812	Not provided
26	Patiala	Kheri Raju Singh	207	765	Not provided
27	Patiala	Kotbhai Lakheya	135	500	Not provided
28	Patiala	Gauspur	105	389	Not provided
29	Patiala	Shankarpura	300	1110	Not provided
30	Patiala	Fatehpur Jattan	247	915	Not provided
31	Patiala	Rasulpur Joran	226	839	Not provided
32	Patiala	Sefdipur	202	750	Yes, Thapar Model
33	Patiala	Jalal Khera	127	469	Not provided
34	Patiala	Daroli	267	989	Yes, Thapar Model
35	Patiala	Madho Majra	234	869	Not provided
36	Patiala	Guru Nankpura	205	760	Yes, Thapar Model
37	Patiala	Dharmkot	114	425	Not provided
38	Patiala	Jhambo Alias Balipur	103	385	Not provided

39	Patiala	Sadhunagar urf Jalahkheri	22	83	Not provided
40	Patiala	Harchandpur a Town	94	1115	Yes, provided
41	Patiala	Harchandpur a Havali	75	279	Not provided
42	Patiala	Chuharpur Marasian	83	310	Not provided
43	Patiala	Mohabatpura	89	330	Not provided
44	Patiala	Kapuri	278	1031	Not provided
45	Patiala	Dera Jheel	110	410	Not provided
<u>Sangrur</u>					
Overall S.No.	Name of district	Name of Villages	Discharge in KLD	Populatio n	Current Waste water treatement system installed
46	Sangrur	Kheri Gillan	75	750	Yes, Thapar Model
47	Sangrur	Balwar Kalan	56	1500	Not provided
48	Sangrur	Hareri	604	1500	Not provided
49	Sangrur	Kanjhla	358	3580	--
50	Sangrur	Kohrian	259	2590	Not provided
51	Sangrur	Lehal Khurd	218	2180	Not provided
52	Sangrur	Kalia	136	1360	Not provided
53	Sangrur	Ghorenab	254	2540	Not provided

54	Sangrur	Khetla	288	2880	Yes, Baba Seechewal Model
55	Sangrur	Tolawal	268	2680	Not provided
56	Sangrur	Kalaudi	93	--	Not provided
57	Sangrur	Baghrol	130	2500	Not provided
SAS Nagar					
Overall S.No.	Name of district	Name of Villages	Discharge in KLD	Population	Current Waste water treatment system installed
58	SAS Nagar	Jagatpura	450	15680	Not provided
59	SAS Nagar	Ambsahib Colony	407	4070	Not provided
60	SAS Nagar	Kambala	407	4070	Not provided
61	SAS Nagar	Kambali	333	3330	Not provided
62	SAS Nagar	Manoli	288	2880	Not provided
63	SAS Nagar	Nagari	107	1070	Not provided
64	SAS Nagar	Haibatpur	192	1920	Not provided
65	SAS Nagar	Jawaharpur	235	2350	Not provided
66	SAS Nagar	Bijanpur	142	1420	Not provided
67	SAS Nagar	Bhakarpur	268	2680	Not provided
68	SAS Nagar	Basauli	150	1500	Not provided
69	SAS Nagar	Kurli	250	2500	Not provided
70	SAS Nagar	Papri	300	3000	Not provided
71	SAS Nagar	Chachumajra	134	1340	Not provided

72	SAS Nagar	Chahumajra	214	2140	Not provided
73	SAS Nagar	Saini Majra	94	940	Not provided
74	SAS Nagar	Dehri	80	800	Not provided
Mansa					
Overall S.No.	Name of district	Name of Villages	Discharge in KLD	Population	Current Waste water treatment system installed
75	Mansa	Phoos Mandi	75	750	Not provided
76	Mansa	Bhunder - 1	5	50	Not provided
77	Mansa	Bhunder - 2	11	110	Not provided
78	Mansa	Borawal	7	70	Not provided
79	Mansa	Borawal	14	140	Yes, Thapar Model
80	Mansa	Farid Ke	15	150	Not provided
81	Mansa	Bhakrial	5	50	Not provided
82	Mansa	Uddat Saidewala	32	320	Not provided
83	Mansa	Juglan	2	20	Not provided
84	Mansa	Piplian	50	500	Yes, Thapar Model
85	Mansa	manderna	2	20	Yes, Thapar Model
86	Mansa	Chak Bhai Ke	10	100	Yes, Thapar Model
87	Mansa	Satika	8	80	Under construction
		Total	24202		

Annexure G - (A) Local Bodies which have installed STPs of full capacities

Sr. No	Name of Town	Capacity of STP (MLD)	Technology of STP
1.	Amloh	3.0	MBBR
2.	Banur	4.0	MBBR
		0.5	Modified constructed wetland
3.	Bareta	3.0	WSP
4.	Bhikhi	3.0	WSP
5.	Boha	2.0	SBR
6.	Budhlada	6.5	MBBR
7.	Ghanour	2.0	Extended aeration
8.	Khanauri	3.0	SBR
9.	Lehragaga	4.0	SBR
10.	Longowal	5.0	SBR
11.	Moonak	3.0	SBR
12.	Nabha	14.5 (12.0 + 2.5 (PSIEC))	SBR
13.	Patiala	94.0 (71.0 + 13.0 (PUDA) + 6.0 (MES) + 4 (DWSS))	71 – SBR 13 – FAB
14.	Patran	4.0	SBR
15.	Rajpura	17.0	SBR
16.	Sardulgarh	4.0	WSP
17.	SAS Nagar	45.4- 68.19	UASB SBR
18.	Sunam	8.0	MBBR
	Total	139.9 248.69	

Annexure G - (B) Local Bodies which have installed partially completed STPs

Sr. No.	Name of the Town	Capacity of the STP already installed (MLD)	Capacity of the STP yet to be installed/ commissioned (MLD)	Status of STP yet to be installed/ commissioned
1.	Bassi Pathana	3	0.2	Funds are being arranged by PWSSB.
2.	Dera Bassi	6 (4 + 2 (PSIEC))	14 (3 + 3.5 + 7.5)	Funds have been arranged by MC for installation of these STPs
3.	Lalru	2.5 (1.5 + 1.0)	7.5 (3.5 + 3 + 1)	Funds have been arranged by MC Lalru for installation of these STPs
4.	Mandi Gobindgarh	28 (25 + 3 (PSIEC))	12	Currently under construction (Electricity connection and Minor works), likely to be completed by 31.12.2025
5.	Samana	10	8	Funds are being arranged by PWSSB.
6.	Sangrur	4	11	12% work completed likely to be commissioned by 30.06.2026.
7.	Sirhind	5	8 (4 + 4)	Almost work completed of 4 MLD STP and likely to be commissioned, funds are being arranged for other 4 MLD STP
8.	Zirakpur	17.3	55	Funds are being arranged by PWSSB.
	Total	81.5 75.8	28.5 115.7	

Annexure G - (C) Status regarding sewage treatment in urban areas

S. No.	Name of the Town	Estimated Population in year 2025*	Estimated Water consumption (MLD)	Estimated Wastewater generation (MLD)	Existing capacity of STPs (MLD)	Proposed capacity of the STP (MLD)	Balance quantity yet to be treated (MLD)
1.	Banur	27950	4.19	3.35	4.5	0.0	0.0
2.	Bareta	22900	3.44	2.75	3.0	0.0	0.0
3.	Bhikhi	25000	3.75	3.00	3.0	0.0	0.0
4.	Budhlada	47953	7.19	5.75	6.5	0.0	0.0
5.	Khanauri	19200	2.88	2.30	3.0	0.0	0.0
6.	Lehragaga	32500	4.88	3.90	4.0	0.0	0.0
7.	Mandi Gobindgarh	120000	18.00	14.40	25.0	12.0	0.0
8.	Moonak	25000	3.75	3.00	3.0	0.0	0.0
9.	Mohali	261000	39.15	31.32	68.19	0.0	0.0
10.	Patiala	610000	91.50	73.20	84	0.0	0.0
11.	Patran	40000	6.00	4.80	4.0	0.0	0.8
12.	Rajpura	131000	19.65	15.72	17.0	0.0	0.0
13.	Samana	78000	11.70	9.36	10.0	8.0	0.0
14.	Sardulgarh	27800	4.17	3.34	4.0	0.0	0.0
15.	Sunam	98000	14.70	11.76	8.0	0.0	3.76
16.	Zirakpur	650000	87.75	74.58	17.3	55.0	57.28
17.	Bassi Pathana	25000	3.75	3.00	3.0	0.2	0.0
18.	Boha	16200	2.43	1.94	2.0	0.0	0.0
19.	Lalru	48000	7.20	5.76	2.5	7.5	3.26
20.	Dera Bassi	110000	16.50	13.20	4.0	14	9.20
21.	Sirhind	83000	12.45	9.96	5.0	8.0	4.96
22.	Amloh	21300	3.20	2.56	3.0	0.0	0.0
23.	Cheema	17500	2.63	2.10	-	2.5	2.10
24.	Dhuri	80000	12.00	9.60	-	5.0 & 6.5	9.60

S.No.	Name of the Town	Estimated Population in year 2025*	Estimated Water consumption (MLD)	Estimated Wastewater generation (MLD)	Existing capacity of STP (MLD)	Proposed capacity of the STP (MLD)	Balance quantity yet to be treated (MLD)
25.	Sangrur	120000	18.00	14.40	4.0	11.0	10.40
26.	Nabha	100000	15.00	12.00	12.0	0.0	0.0
27.	Longowal	34700	5.21	4.16	5.0	0.0	0.0
28.	Sanaur	30000	4.50	3.60	-	4.0 (Discharge taken under Badi Nadi Choti Nadi project by PDA)	3.60
29.	Bhadson	10400	1.56	1.25	-	2.0	1.25
30.	Ghanour	10200	1.53	1.22	2.0	0.0	0.0
31.	Devigarh	14792	2.22	1.78	-	2.5	0.0
	TOTAL		430.88	349.06	306.99	126.7	106.21

* Last population census was done in the year 2011. CAGR method and latest trends of population increase has been used for estimating recent population

Annexure H - List of Industries located in Dera Bassi area

Sr. No.	Name and Address of industry	Type of industry	Water consumption (KLD)	Effluent discharge (KLD)		ETP component	Mode of Disposal of treated wastewater authorized by the Board.
				Trade (KLD)	Domestic Effluent		
1.	T.C. Terrytex Limited, Village Sarsini, PO Lalru, Dera Bassi	Dyeing	2200	1800	50	Physico chemical followed by aerobic biological treatment and tertiary treatment	Onto land for plantation
2.	YCD Industries Ltd. (Formerly Bhandari Export Industries Ltd.), Village Sarsini, Dera Bassi	Dyeing	200	160	10	Physico chemical followed by aerobic biological treatment and tertiary treatment	Onto land for plantation
~~3.~~	~~Rana Polycot Ltd. (Dyeing Unit), Village Alamgir, Dera Bassi~~ CLOSED	~~Dyeing~~	~~600~~	~~500~~	~~3~~	~~Physico-chemical followed by aerobic biological treatment and tertiary treatment~~	~~Onto land for plantation~~
3.	Nahar Spinning Mills Ltd.(M & D Unit), Village Lehli, PO Dappar, Lalru, Dera Bassi	Dyeing	1850	1700	50	Physico chemical followed by aerobic biological treatment.	Onto land for plantation
4.	Nahar Industrial Enterprises Ltd. (Process House-I), Village Jalalpur, PO Dappar, Dera Bassi	Dyeing	2800	2300	200	Aerobic biological treatment followed by tertiary treatment.	Onto land for plantation
5.	Nahar Industrial Enterprises Ltd. (Process House-2), Village Jalalpur, PO Dappar, Dera Bassi	Dyeing	3500	2750	200	Aerobic biological treatment.	Onto land for plantation
~~7.~~	~~Oswal Denims, Village Dappar, Lalru, Dera Bassi~~	~~Dyeing~~	~~1100~~	~~710~~	~~150~~	~~Physico-chemical followed by aerobic biological treatment and tertiary treatment.~~	~~Onto land for plantation~~

	CLOSED						
6.	Rainbow Denim Ltd., Village Chaundheri, Dera Bassi (98140-88924) CLOSED	Dyeing	590	455	55	Physico-chemical followed by aerobic biological treatment and tertiary treatment.	Onto land for plantation
6.	Mirha Exports (P) Ltd., Village Jaula Khurd, Dera Bassi (84276-77844)	Meat Plant	1910	1620	23.5	An-aerobic followed by aerobic biological treatment and tertiary treatment.	Onto land for plantation
7.	Suguna Foods (Earlier SHL Agro foods INC), Village Jaula Khurd, Dera Bassi	Meat Plant	100	75	13.68	Aerobic biological treatment and tertiary treatment.	Onto land for plantation
8.	Cad Chem Laboratories Ltd Village Jaula Kalan, Dera Bassi	Pharmaceutical	36	11	2.6	The industry is generating two type of effluent stream i.e. High TDS and Low TDS. The industry has installed MEE for the treatment of High TDS and installed ETP based on physio-chemical treatment for the low TDS.	Onto land for plantation
9.	Pure & Cure Lifesciences Ltd. (Earlier Parabolic Drugs Ltd.), Village Chachrouli, Dera Bassi	Pharmaceutical	15	12	1.5	MEE for high TDS stream and aerobic biological treatment system for low TDS stream.	ZLD
10.	Punjab Chemical & Crop Protection Ltd (Pharma Division), (Old name Alpha Drugs Ltd.), Village Samalheri, Dera Bassi	Pharmaceutical	118	27	10	MEE installed.	ZLD

11.	Nectar Lifesciences Ltd. Unit-2 (Old Name Surya Medicare Ltd.), Village Saidpura, Dera Bassi	Pharmaceutical	220	200	15	MEE for high TDS stream and aerobic biological treatment system for low TDS stream.	Onto land for plantation
12.	Allychem Laboratories (P) Ltd, E-68-69, focal point, Dera Bassi	Pharmaceutical	38	12	3	MEE installed.	--
13.	Essix Biosciences Ltd., B-4 & 5, Focal Point, Dera Bassi	Pharmaceutical	10	7.2	2	Single stage evaporator for high TDS stream and aerobic biological for low TDS stream.	Onto land for plantation
14.	Vardhman Chemtech Ltd., Focal Point, Dera Bassi.	Pharmaceutical	50	39.5	4.5	MEE installed.	ZLD
15.	Anuja Healthcare Ltd. (Old name Anuja Impex (P) Ltd.), C-26 & C-31, Focal Point, Dera Bassi	Pharmaceutical	176.5	9.5	1.764	MEE installed.	--
16.	Nectar Lifesciences Ltd. Unit-1 (Old Name Surya Medicare Ltd), Village Saidpur, Dera Bassi	Pharmaceutical	175	29	6	ETP common with Nectar Life Sciences Unit-2.	Please see the status of Nectar Life Sciences Unit-2 at S.No. 14.
17.	ARK Healthcare, D-12, Focal Point, Dera Bassi	Pharmaceutical	2.4	1.07	0.5	Low TDS treated through ETP based on physico chemical followed by biological treatment and high TDS treated through Single effect evaporator	--
18.	Panacea Biotech Ltd., Village Samalheri, Near Lalru, Dera Bassi	Pharmaceutical	100	83	13	The industry has installed ETP based on biological treatment.	Onto land for plantation
19.	Punjab Chemicals & Crop Protection Ltd (Agro Division)., Village Bhankharpur, Dera	Pesticide	193	21	10	MEE installed.	ZLD

	Bassi						
20.	Sarwal Pharmaceuticals, F-14, Focal Point, Dera Bassi	Pharmaceutical Formulation	3.4	0.2	1.2	Pan type evaporator	--
21.	Austin Pharmaceuticals, E-40, Focal Point, Dera Bassi	Pharmaceutical Formulation	7	0.1	0.8	Pan type evaporator	--
22.	Ticoma Pharmacia, E-47, focal Point Dera Bassi	Pharmaceutical Formulation	1.2	0.06	0.4	Pan type evaporator	ZLD
23.	Steel Strips Wheels Ltd., Village Smalheri, Dera Bassi	Engineering Goods	500	293	75	Physico-chemical treatment.	Onto land for plantation
~~27.~~	~~Prerna Strips, Village Bhankharpur, Dera Bassi~~ CLOSED	~~Engineering Goods~~	~~1.2~~	~~0.5~~	~~0.3~~	~~Joined CETP~~	~~Closed temporarily~~
~~28.~~	~~A.R. Fastners, E-71, Indl. Focal Point, Dera Bassi~~ CLOSED	~~Engineering Goods~~	~~2~~	~~0.35~~	~~0.5~~	~~Joined CETP~~	~~-~~
24.	Kiran Industries (Vipan Kumar), F-19, Focal Point, Dera Bassi	Electroplating	0.45	0.15	0.3	Joined CETP	-
25.	Kamal Hi-tech Engineers (P) Ltd, B-10-11, Focal Point, Dera Bassi	Electroplating	10	7.5	2	Joined CETP	-
26.	Morff International, E-27, Focal Point, Dera Bassi	Electroplating	1	0.1	0.4	Joined CETP	--
27.	Kaura Inds. Corp., D-2, Focal Point, Dera Bassi	Electroplating	0.525	0.4	0.1	Joined CETP	-

33.	~~Yashwani Enterprises, F-28, Focal Point, Dera Bassi~~ CLOSED	~~Electroplating~~	~~0.5~~	~~0.24~~	~~0.1~~	~~Joined CETP~~	~~-~~
28.	Piyanshu chemicals (P) Ltd., D-22A & D-23, Focal Point, Dera Bassi	Resin manufacturing	5	0.3	0.5	No ETP installed as the quantity of generation of effluent is quite less. Therefore, the industry has installed electric heater.	ZLD
29.	Varindra Organica (P) Ltd., D-24, Focal Point, Dera Bassi	Organic Chemical industry	12	8	2.4	Physico-chemical treatment.	Treated wastewater is used in cooling water as make up water.
30.	Power Chem Plast Ltd.(Formerly Power Drugs Ltd), C-25, Focal Point, Dera Bassi	Organic Chemical industry	1	0	1	Reuse in Cooling Tower	--
31.	Vishal Papertech (India) Ltd., Village Mubarikpur, Dera Bassi	Pulp & Paper	1250	1224	8	Primary treatment followed by secondary aerobic biological treatment.	Onto land for plantation
32.	Nachiketa Papers Ltd., Village Mubarikpur, Dera Bassi	Pulp & Paper	196	6	5	Settling tank and sedi cell.	Reused
33.	Inbrew Beverages (Earlier Molson Coors india (P) Ltd.) Village Bhankharpur, Dera Bassi	Brewery	800	700	72	The industry has installed ETP based on physico chemical followed by biological treatment.	Onto land for plantation
34.	Chandigarh Distillers & Bottlers Ltd., Banur	Distillery	2500	2310	~~120~~ 20	MEE followed by drier for spent wash. Aerobic Biological treatment system for other streams.	ZLD
35.	Rama Industries Ltd., Village Chaundheri,	Gelatine	4810	1615	10	Physico chemical followed by aerobic biological treatment	Onto land for plantation

	Lalru, Dera Bassi					and tertiary treatment.	
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Annexure I - List of Industries located in Patiala area

S. No.	Name and Address of industry	Type of industry	Water consumption (KLD)	Effluent discharge (KLD)		ETP component	Mode of Disposal of treated wastewater authorized by the Board.
				Trade (KLD)	Domestic (KLD)		
1	Vishal Coater Pvt. Ltd., Vill. Khusropur, Patiala	Pulp & Paper	627	510	6	Aerobic biological treatment.	Onto land for plantation
2	Vishal Paper Industries Pvt. Ltd., Vill. Khusropur, Patiala	Pulp & Paper	1075	510	9	Aerobic biological treatment.	Onto land for plantation
3	SSG Paper Mills, Vill. Khusropur, Maine Road, Patiala	Pulp & Paper	235	90	10	Aerobic biological treatment.	Onto land for plantation
4	Shree Swami Card Board Mills, Bhanri Road, Vill. Main, Distt. Patiala	Paper Board	21	0	0.5	Recirculation system provided.	Reused in the process
5	Mittal Card Board Mills, Vill. Main, Tehsil and Distt. Patiala	Paper Board	18	0	0.5	Recirculation system provided.	Reused in the process
6	DSG Paper Mill, Vill. Bhanri	Pulp & Paper	1076	1000	18	Aerobic biological	Onto land for

	Road, Maine Road, Patiala					treatment	plantation
7	Patiala Distillers & Mfrs. Pvt. Ltd., Vill. Main, Patiala	Distillery	4000	3000	5	Anaerobic treatment followed by aerobic biological treatment	Onto land for plantation. Presently, temporarily distillation process not in operation.

Annexure J - Status of HCFs operating in catchment areas of Ghaggar

Sr. No	Name of the town	No. of HCFs covered	No. of bedded HCFs	No. of non-bedded HCFs	No. of HCFs not made agreement with CBWTF
1	SAS Nagar	1287	273	1014	0
2	Patiala	790	360	430	0
3	Sangrur	466	138	328	0
4	Mansa	240	51	189	0
5	Fatehgarh Sahib	138	100	38	0

Annexure K - List of schemes commissioned for utilization of treated waste water for irrigation

Sr no.	Name of Town where STPs operational	Capacity of STP (MLD)	STP Technology	Area Irrigated (Hectares)
1	Banur	4	MBBR	65
2	Baretta	3	WSP	130
3	Bhikhi	3	WSP	145
4	Moonak	3	SBR	88
5	Patran	4	SBR	120
6	Sardulgarh	4	WSP	108
7	Lehragaga	4	SBR	138
8	Sunam	8	MBBR	165
9	Khanauri	3	SBR	81
10	Samana	10	SBR	324
11	Rajpura	7	SBR	140
12	Mandi Gobindgarh	25	SBR	435
	Total	78		1939

Annexure L - Timelines for setting up of treatment facilities by Local Bodies

(1) PWSSB			
~~(i) Name of the Project: Providing Sewerage & Construction of 10 MLD STP at Rajpura- (Completed & Commissioned)~~			
~~Brief Scope of Work~~		~~1 No. STP of 10 MLD~~	
Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved
2	Financial Closure	Funds tied up under HUDCO loan (Rs.7.42 crore)	
3	Tendering of the work including allotment	Started	Completed
4	Commencement of work	Started	31.03.2019
5	Quarterly milestones- during the construction stage	-	-
6	Completion and commissioning	01.04.2019	30.6.2019
~~(iii) Name of the Project: Providing Sewerage & Construction of 2 MLD STP at Boha- (Completed & Commissioned)~~			
~~Brief Scope of Work~~		~~1 No. STP of 2 MLD~~	
1	Preparation of DPR	Prepared	Approved
2	Financial Closure	Funds tied up under HUDCO loan (rs. 23.45 crore)	
3	Tendering of the work including allotment	Tender allotted	
4	Commencement of work	Started	31.03.2020
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	01.04.2020	31.07.2020
(i) Name of the Project: Providing Sewerage & Construction of 2.5 MLD STP at Cheema			
Brief Scope of the Project		1 No STP of 2.5 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Prepared
2	Financial Closure	Funds ~~being~~ tied up under ~~HUDCO loan (Rs.7.32 crore)~~ SBM 2.0	
3	Tendering of the work including allotment	Started	~~31.07.2019~~ 08.01.2025

4	Commencement of work	08.01.2025	07.06.2026
5	Quarterly Milestones during the construction stage	25%	25%
6	Completion and Commissioning	07.06.2026	06.09.2026
(ii) Name of the Project: Providing Sewerage & Construction of 2 MLD STP cum 6 KLD FSTP at Bhadson			
Brief Scope of the Project		1 No STP of 2 MLD	
1	Preparation of DPR	Prepared	Approved
2	Financial Closure	Funds tied up under SBM 2.0	
3	Tendering of the work including allotment	Started	Completed
4	Commencement of work	Started	31.10.2025
5	Quarterly Milestones during the construction stage	--	--
6	Completion and Commissioning	01.11.2025	31.01.2026
(iv) ~~Name of the Project: Providing Sewerage & Construction of 12 MLD STP at Nabha~~ Completed			
Brief Scope of the Project		~~1 No STP of 12 MLD~~	
1	~~Preparation of DPT~~	~~Prepared~~	~~Already approved~~
2	~~Financial Closure~~	~~Funds being tied up under HUDCO Loan (Rs.19.15 crore)~~	
3	~~Tendering of the work including allotment~~	~~Land being finalized and tendering will be started after possession of land—01.06.2019~~	~~30.09.2019~~
4	~~Commencement of work~~	~~01.10.2019~~	~~31.03.2021~~
5	~~Quarterly Milestones during the construction stage~~	~~25%~~	
6	~~Completion and Commissioning~~	~~01.04.2021~~	~~30.06.2021~~
(iii) Name of the Project: Providing Sewerage & Construction of 5 MLD & 6.5 MLD STPs at Dhuri			

	Brief Scope of the Project	Scope: 1 No. STP of 5 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved
2	Financial Closure	Funds tied up under HUDCO loan ~~(Rs. 56.81 crore)~~	
3	Tendering of the work including allotment	Tender allotted	-
4	Commencement of work	Started	31.07.2026
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	31.07.2026	30.10.2026
	Brief Scope of the Project	Scope: 1 No. STP of 6.5 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved.
2	Financial Closure	Funds tied up under HUDCO loan	
3	Tendering of the work including allotment	Tender allotted but land is being finalized	
4	Commencement of work	Work will be started after possession of land - T	T + 12 months
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	T + 12 months	T + 18 months
(iv) Name of the Project: Providing Sewerage & Construction of 11 MLD ~~& 4 MLD~~ STP at Sangrur			
	~~Brief Scope of the Project~~	~~Scope: 1 No. STP of 4 MLD~~	
~~1~~	~~Preparation of DPR~~	~~Prepared~~	~~Approved.~~
~~2~~	~~Financial Closure~~	~~Funds tied up under HUDCO loan (Rs. 100.33 crore)~~	
~~3~~	~~Tendering of the work including allotment~~	~~Tender allotted~~	
~~4~~	~~Commencement of work~~	~~Started~~	~~31.03.2020~~
~~5~~	~~Quarterly Milestones during the construction stage~~	~~-~~	~~-~~
~~6~~	~~Completion and Commissioning~~	~~01.04.2020~~	~~31.07.2020~~

	Brief Scope of the Project	Scope: 1 No. STP of 11 MLD
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Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved.
2	Financial Closure	Funds tied up under SBM 2.0	
3	Tendering of the work including allotment	Tender allotted	
4	Commencement of work	Started	31.03.2026
5	Quarterly Milestones during the construction stage	25 %	25 %
6	Completion and Commissioning	31.03.2026	30.06.2026

~~(viii) ——— Name of the Project: Providing Sewerage & Construction of 3 MLD STP at Bassi Pathana~~
Completed

	Brief Scope of the Project	Scope: 1 No. STP 3 MLD	
Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved.
2	Financial Closure	Funds tied up under HUDCO loan (Rs. 20.30 crore)	
3	Tendering of the work including allotment	Tender allotted	
4	Commencement of work	Started	31.03.2020
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	01.04.2020	31.07.2020

~~(ix) Name of the Project: Providing Sewerage & Construction of 2 MLD STP at Longowaal~~

Completed

	Brief Scope of the Project	1 No STP of 2 MLD	
1	Preparation of DPR	Prepared	Approved.
2	Financial Closure	Funds being tied up under HUDCO loan (Rs.9.67 crore)	
3	Tendering of the work including allotment	Started	31.07.2019

4	Commencement of work	01.08.2019	31.07.2020
5	Quarterly Milestones during the construction stage	25%	
6	Completion and Commissioning	01.08.2020	31.10.2020
(x) Name of the Project:- Providing Sewerage & Construction of 3 MLD STP at Amloh Completed			
	Brief Scope of the Project	1 No STP of 3 MLD	

Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPT	Prepared	Already approved
2	Financial Closure	Funds being tied up under HUDCO Loan (Rs. 12.58 crore)	
3	Tendering of the work including allotment	Land being finalized and tendering will be started after possession of land- 01.06.2019	30.09.2019
4	Commencement of work	01.10.2019	30.09.2020
5	Quarterly Milestones during the construction stage	25%	25%
6	Completion and Commissioning	01.10.2020	31.12.2020
(v) Name of the Project:- Providing Sewerage & Construction of 3 STPs of capacity 7.5 MLD, 3.5 MLD and 3 MLD at Issapur & Mirpur, Mubarakpur at Derabassi			
	Brief Scope of the Project	3 Nos. STP of 7.5 MLD, 3.5 MLD and 3 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved.
2	Financial Closure	Funds tied up under SBM 2.0	
3	Tendering of the work including allotment	01.09.2025	31.10.2025
4	Commencement of work	01.11.2025	31.12.2026
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	01.01.2027	31.03.2027
(vi) Name of the Project:-Providing Sewerage & Construction of 3 STPs of capacity 3.5 MLD, 3 MLD and 1 MLD at Gholumajra and Chaundhehri & Samalheri, Lalru			
	Brief Scope of the Project	3 Nos. STP of 3.5 MLD, 3 MLD and 1 MLD	

Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved.
2	Financial Closure	Funds tied up under SBM 2.0	
3	Tendering of the work including allotment	01.09.2025	31.10.2025
4	Commencement of work	01.11.2025	31.12.2026
5	Quarterly Milestones during the construction stage	-	-

6	Completion and Commissioning	01.01.2027	31.03.2027
(vii) Name of the Project: - Providing Sewerage & Construction of 4 MLD STP at Sanour			
Brief Scope of the Project		Part of 26 MLD capacity STP being installed at Badi Nadi Choti Nadi Project by PDA Patiala	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	DPR prepared and completed	
2	Financial Closure	Funds not tied up. Expected source- Govt. of Punjab. Approximate funds required- Rs. 25 Crore .	31.03.2020
3	Tendering of the work including allotment	Completed	Completed
4	Commencement of work	Started	31.12.2025
5	Quarterly Milestones during the construction stage	75%	
6	Completion and Commissioning	31.12.2025	31.03.2026

~~(xv) Name of the Project: Providing Sewerage & Construction of 2 MLD STP at Ghanaur - Completed~~

~~Brief Scope of the Project~~		~~1 No STP of 2 MLD~~	
~~Sr. No.~~	~~Stage~~	~~Start Date~~	~~Completion Date~~
~~1~~	~~Preparation of DPR~~	~~Prepared~~	~~Already approved~~
~~2~~	~~Financial Closure~~	~~Funds being tied up under HUDCO Loan (Rs. 3.10 crore)~~	

3	Tendering of the work including allotment	Started	31.07.2019
4	Commencement of work	01.08.2019	31.07.2020
5	Quarterly Milestones during the construction stage	25%	
6	Completion and Commissioning	01.08.2020	31.10.2020

(viii) **Name of the Project: Providing Sewerage & Construction of 2 STPs of 4 MLD capacity each at Sirhind**

	Brief Scope of the Project	STP of capacity 4 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved
2	Financial Closure	Done	
3	Tendering of the work including allotment	Tender Done	
4	Commencement of work	Started	Complete
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	Started	Likely by 31.12.2025
	Brief Scope of the Project	STP of capacity 4 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	To be prepared. Plan of 2MLD changed to 4 MLD	
2	Financial Closure	No financial closure	
3	Tendering of the work including allotment	--	--
4	Commencement of work	--	--
5	Quarterly Milestones during the construction stage	--	--
6	Completion and Commissioning	--	--

(ix) ~~**Name of the Project: Upgradation of existing WSP based STPs to achieve latest CPCB norms at Bareilly, Bhikhi & Sardulgarh**~~

Brief Scope of the Project		Upgradation of existing 3 no. STPs	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	01.02.2019	30.05.2019
2	Financial Closure	Funds not tied up. Expected source Govt. of Punjab. Approximate funds required Rs. 15 Crore.	31.03.2020
3	Tendering of the work including allotment	01.04.2020	30.09.2020
4	Commencement of work	01.10.2020	30.09.2021
5	Quarterly Milestones during the construction stage	25%	-
6	Completion and Commissioning	01.10.2021	31.12.2021

(ix) Name of the Project: Providing Sewerage & Construction of 12 MLD capacity at Mandi Gobindgarh

Brief Scope of the Project		STP of capacity 12 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Prepared	Approved
2	Financial Closure	Done	
3	Tendering of the work including allotment	Tender Done	
4	Commencement of work	Started	Likely by 30.09.2025
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning		Likely by 31.12.2025

(x) Name of the Project: Providing Sewerage & Construction of 55 MLD capacity at Zirakpur

Brief Scope of the Project		STP of capacity 55 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Under preparation	
2	Financial Closure	Funds tied up (MC funds). Land not available	

3	Tendering of the work including allotment	T	T+2 Months
4	Commencement of work	T+5 Months	T+18 Months
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	T+18 months	T+21Months

(xi) Name of the Project: Providing Sewerage & Construction of 8 MLD capacity at Samana

	Brief Scope of the Project	STP of capacity 8 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Under preparation	-
2	Financial Closure	T	
3	Tendering of the work including allotment	T+2 Months	
4	Commencement of work	T+5 Months	T+18 Months
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	T+18	T+21 Months

(xii) Name of the Project: - Providing Sewerage & Construction of 0.2 MLD STP at Bassi Pathana

	Brief Scope of the Project	Scope:- 1 No. STP 0.2 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Under preparation	-
2	Financial Closure	T	
3	Tendering of the work including allotment	T+2 Months	
4	Commencement of work	T+5 Months	T+18 Months
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	T+18	T+21 Months

(xiii) Name of the Project: - Providing Sewerage & Construction of 2.5 MLD STP at Devigarh

	Brief Scope of the Project	Scope:- 1 No. STP 2.5 MLD	
Sr. No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Under preparation	-
2	Financial Closure	T	
3	Tendering of the work including allotment	T+2 Months	
4	Commencement of work	T+5 Months	T+18 Months
5	Quarterly Milestones during the construction stage	-	-
6	Completion and Commissioning	T+18	T+21 Months

~~Annexure M – Timelines for setting up of treatment facilities by MES, Patiala Name
of the Project: Military Engineering Services, Patiala – STP of 6 MLD capacity~~

Brief Scope of Work		STP based on MBBR Technology of capacity 6 MLD.	
Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	August, 2016	January, 2017
2	Financial Closure	Govt. sanctioned Final Report for provision of 6 MLD STP on 27 th March, 2017	August, 2020
3	Tendering of the work including allotment	Technical sanction issued for tendering by CECZ (Chief Engg. Chd Zone) on 18 th October, 2018	February, 2019
4	Commencement of work	15 th March, 2019	August, 2020
5	Quarterly milestones during the construction stage	1 st Quarter = 15% 2 ^d Quarter = 20% 3 rd Quarter = 30% 4 th Quarter = 20% 5 th Quarter = 20% In remaining time = 5%	
6	Completion and commissioning	August, 2020	August, 2020

Annexure N - (A) Times lines for installation of online continuous effluent monitoring system

(1) PWSSB for the remaining STPs already in operation in the towns namely Amloh, Boha, Ghanour, Khanauri, Lehragaga, Longowal, Moonak, Nabha, Sunam, Bassi Pathana, Sangrur and Sirhind			
Name of the Project		All Existing STPs where maintenance is with PWSSB	
Sr.No.	Stage	Start Date	Completion Date
1	Financial Closure	01.08.2025	31.10.2025
2	Tendering of the work including allotment	01.11.2025	31.01.2026
3	Commencement of the work	01.02.2026	30.04.2026
4	Completion and commissioning	01.05.2026	30.06.2026
(2) GMADA			
	Name of the Project	STP of 68.10 MLD capacity at Sector 83, SAS Nagar.	
1	Financial Closure	Done	Done
2	Tendering of the work including allotment	Completed	Completed
3	Commencement of the work	Commissioned	Commissioned
4	Completion and commissioning	30.6.2025	Commissioned on 30.06.2025
	Name of the Project	STP of 4 MLD capacity at Dera Bassi. COMPLETED	
1	Financial Closure	10.1.2019	31.3.2019
2	Tendering of the work including allotment	5.4.2019	10.5.2019
3	Commencement of the work	15.5.2019	30.6.2019
4	Completion and commissioning	30.6.2019	30.6.2019
	Name of the Project	STP of 1.5 MLD capacity at Lalru	
Sr.No.	Stage	Start Date	Completion Date
1	Financial Closure	10.1.2019	31.3.2019
2	Tendering of the work including allotment	5.4.2019	10.5.2019
3	Commencement of the work	15.5.2019	30.6.2019

4	~~Completion and commissioning~~	30.6.2019	30.6.2019
(3) PSIEC			
	Name of the Project	STP of 2 MLD capacity at Focal Point, Dera Bassi- COMPLETED	
1	Financial Closure	15.2.2019	31.3.2019
2	Tendering of the work including allotment	1.4.2019	20.4.2019
3	Commencement of the work	21.4.2019	20.5.2019
4	Completion and commissioning	21.5.2019	30.5.2019
	Name of the Project	STP of 3 MLD at Focal Point, Mandi Gobindgarh	
1	Financial Closure	Complete	Complete
2	Tendering of the work including allotment	Complete	Complete
3	Commencement of the work	Complete	Complete
4	Completion and commissioning	Complete	30.08.2025

(4) Municipal Corporation, Patiala- COMPLETED			
Name of the Project		STP Shermajra and STP Ablawal	
Brief Scope of the Project		Online Continuous Monitoring System	
Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	11.1.2019	18.1.2019
2	Financial Closure	About 50 lakh	-
3	Tendering of the work including allotment	Within one month	Within four months
4	Commencement of the work	Within four months	Within four months
5	Completion and commissioning	11.4.19	11.5.19
(5) Patiala Development Authority- INSTALLED			
	Name of the Project	STP of 13 MLD capacity at Urban Estate, Patiala	
	Brief Scope of the Project	Online Continuous Monitoring System	
1	Financial Closure	1.1.2019	31.1.2019
2	Tendering of the work including	1.2.2019	15.2.2019

	allotment		
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3	Commencement of the work	20.2.2019	15.3.2019
4	Completion and commissioning	16.3.2019	31.3.2019

Annexure N - (B) Times lines for installation of CCTV cameras in already operational STPs

(1) PWSSB for the remaining STPs already in operation in the towns namely Amloh, Boha, Ghanour, Khanauri, Lehragaga, Longowal, Moonak, Nabha, Sunam, Bassi Pathana, Sangrur and Sirhind			
Name of the Project		All Existing STPs where maintenance is with PWSSB	
Sr.No.	Stage	Start Date	Completion Date
1	Financial Closure	01.08.2025	31.10.2025
2	Tendering of the work including allotment	01.11.2025	31.01.2026
3	Commencement of the work	01.02.2026	30.04.2026
4	Completion and commissioning	01.05.2026	30.06.2026
(2) GMADA			
	Name of the Project	STP of 68.10 MLD capacity at Sector 83, SAS Nagar.	
1	Financial Closure	Done	Done
2	Tendering of the work including allotment	Completed	Completed
3	Commencement of the work	Commissioned	Commissioned
4	Completion and commissioning	30.6.2025	Commissioned on 30.06.2025
	Name of the Project	~~STP of 4 MLD capacity at Dera Bassi.~~ COMPLETED	
1	Financial Closure	~~10.1.2019~~	~~31.3.2019~~
2	~~Tendering of the work including allotment~~	~~5.4.2019~~	~~10.5.2019~~
3	~~Commencement of the work~~	~~15.5.2019~~	~~30.6.2019~~
4	~~Completion and commissioning~~	~~30.6.2019~~	~~30.6.2019~~
	Name of the Project	~~STP of 1.5 MLD capacity at Lalru~~	
Sr.No.	Stage	Start Date	Completion Date
1	Financial Closure	~~10.1.2019~~	~~31.3.2019~~
2	~~Tendering of the work including allotment~~	~~5.4.2019~~	~~10.5.2019~~
3	~~Commencement of the work~~	~~15.5.2019~~	~~30.6.2019~~

4	~~Completion and commissioning~~	~~30.6.2019~~	~~30.6.2019~~
(3) PSIEC			
	Name of the Project	STP of 2 MLD capacity at Focal Point, Dera Bassi- COMPLETED	
1	Financial Closure	15.2.2019	31.3.2019
2	Tendering of the work including allotment	1.4.2019	20.4.2019
3	Commencement of the work	21.4.2019	20.5.2019
4	Completion and commissioning	21.5.2019	30.5.2019
	Name of the Project	STP of 3 MLD at Focal Point, Mandi Gobindgarh	
1	Financial Closure	Complete	Complete
2	Tendering of the work including allotment	Complete	Complete
3	Commencement of the work	Complete	Complete
4	Completion and commissioning	Complete	30.08.2025

~~(4) Municipal Corporation, Patiala- COMPLETED~~			
Name of the Project		STP Shermajra and STP Ablawal	
Brief Scope of the Project		Installation of CCTV cameras	
Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	11.1.2019	18.1.2019
2	Financial Closure	About 50 lakh	-
3	Tendering of the work including allotment	Within one month	Within four months
4	Commencement of the work	Within four months	Within four months
5	Completion and commissioning	11.4.19	11.5.19
~~(5) Patiala Development Authority- INSTALLED~~			
	Name of the Project	STP of 13 MLD capacity at Urban Estate, Patiala	
	Brief Scope of the Project	Installation of CCTV cameras	
1	Financial Closure	1.1.2019	31.1.2019
2	Tendering of the work including	1.2.2019	15.2.2019

	allotment		
3	Commencement of the work	20.2.2019	15.3.2019
4	Completion and commissioning	16.3.2019	31.3.2019

Annexure O - Timelines for setting up of treatment facilities in remaining Rural areas

The phase wise timelines are given as under:

Phase – I			
Brief Scope of Work		Treatment facilities 19 out of remaining 98 villages having total discharge of 8.698 MLD	
Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	01.08.2025	30.11.2025
2	Financial Closure	01.12.2025	31.01.2026
3	Tendering of the work including allotment	01.02.2026	31.03.2026
4	Commencement of work	01.04.2026	30.09.2026
5	Quarterly milestones during the construction stage	-	-
6	Completion and commissioning	01.10.2026	31.10.2026
Phase – 2			
Brief Scope of Work		Treatment facilities 147 out of 203 villages having total discharge of 26.49 MLD	
1	Preparation of DPR	01.08.2025	30.11.2025
2	Financial Closure	01.12.2025	31.01.2026
3	Tendering of the work including allotment	01.02.2026	31.03.2026
4	Commencement of work	01.04.2026	30.09.2026
5	Quarterly milestones during the construction stage	-	-
6	Completion and commissioning	01.10.2026	31.10.2026
Phase – 3			
Brief Scope of Work		Treatment facilities 70 out of 87 villages having total discharge of 18.238 MLD	
Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	01.08.2025	30.11.2025
2	Financial Closure	01.12.2025	31.01.2026

3	Tendering of the work including allotment	01.02.2026	31.03.2026
4	Commencement of work	01.04.2026	31.05.2022 30.09.2026
5	Quarterly milestones during the construction stage	-	-
6	Completion and commissioning	01.10.2026	31.01.2026

Annexure P - Timelines for providing irrigation schemes to utilize the treated sewage

Name of Project		Utilization of Treated Water from Sewerage Treatment Plants (STP's) situated in Ghaggar Catchment	
Projects Details/Funds		Estimated Amount of 8489.00 lakhs is required for creation of Irrigation Infrastructure from all STP's whether completed, under progress and proposed.	
Brief Scope of Project		The project involves laying network of underground pipelines from Sewerage Treatment Plants for conveyance of treated water for irrigation in agricultural fields.	
S.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	Under Progress	~~30.6.2019 --~~
2	Financial Closure	Projects already proposed to Gol and State for funding (84.89 cr required)	T
3	Tendering of Work including allotment	T+1 month	T+4 months
4	Commencement of Work	T+5 months*	T+11 months*
5	Quarterly Milestone during construction Stage	NA	NA
6	Completion and Commissioning	T+11 to T+18 months	T+14 to T+20 months

*Delay in commencement of work after funding and tendering process is mainly because as irrigation pipeline has to be laid in agricultural fields, due to which irrigation projects can be installed during harvest season. It shall depend upon month of availability of funds for projects, i.e. why period of 1-month upto 6 month has been identified in commencement of work.

Fund Requirement for Individual Irrigation Projects from STP's

S No.	Name of Town	Capacity of STP (MLD)	STP Technology	Irrigation system ~~estimated~~ Cost (Rs. In Lakh)
STP's Operational				
~~1~~	~~Khanauri~~	~~3.0~~	~~SBR~~	~~110.00~~ COMPLETED
2.	Amloh	3.0	MBBR	150
3.	Boha	2.0	SBR	100
4.	Ghanour	2.0	Extended aeration	100
5.	Longowal	5.0	SBR	250
~~6.~~	~~Lehragaga~~	~~4.0~~	~~SBR~~	~~Completed~~
7.	Nabha	12.0	SBR	600
8.	Rajpura-I	10.0	SBR	140
~~9.~~	~~Rajpura-II~~	~~7.0~~	~~SBR~~	~~Completed~~
10.	Bassi Pathana	3.0	SBR	150
11.	Derabassi	4.0	SBR	289
12.	Lalru	1.5	SBR	238
13.	Lalru	1.0	Bio-filtrate	50
14.	Sangrur	4.0	SBR	200
~~15.~~	~~Mandi Gobindgarh~~	~~25.0~~	~~SBR~~	~~649.48~~ Completed
15.	Patiala	46.0	SBR	2300.00
16.	Patiala	15.0	SBR	750
17.	Patiala	13.0- PUDA	FAB	650
Total (A)		121.5		5967
STP's under Construction				
PWSSB				
~~1~~	~~Bassi Pathana~~	~~3.0~~	~~SBR~~	~~115.00~~
~~2~~	~~Boha~~	~~2.0~~	~~SBR~~	~~65.00~~
1	Sirhind	5.0	SBR	225.00
		4.0	SBR	200
2	Sangrur	11.0	SBR	150.00
3.	Mandi Gobindgarh	12.0	SBR	--
5.	Dhuri	5.0	SBR	300
6.	Bhadson	2.0	MBBR	100
7.	Cheema	2.50	MBBR	100
PSIEC				
1	Industrial Focal point, Mandi Gobindgarh	3.0		82.00

2	Industrial Focal Point, Nabha	2.5		225
	Total (B)	42.0		1157.00
	STP's Proposed to be Constructed			
	PWSSB			

1	Lalru	3.5	--	75
2	Lalru	3.0	--	--
3	Lalru	1.0	--	30
4	Zirakpur	55	--	850
5	Derabassi	3.5	--	100
6	Derabassi	3.0	--	100
7	Derabassi	7.5	--	--
8	Dhuri	6.5	--	--
9	Sirhind	4.0	--	200
10	Bassi Pathana	0.2	--	10
11	Devigarh	2.5	--	--
	Total (C)	89.7		1365.00
GRAND TOTAL (A+B+C)		253.2		8489

Irrigation Projects from STP Mohali (68.19 MLD), Zirakpur (17.3 MLD), Patiala (10MLD), Budhlada (6.5 MLD) and Sirhind (5.0 MLD) a not feasible because of non-availability of Irrigation command as STP is located in urbanized area

Treated Water from Sanour STP (4 MLD) shall be utilized in Badi Nadi Choti Nadi Project

Annexure Q – Installation of STPs by PSIEG

Name of the Project		Operation and Maintenance STP, IFP, Mandi Gobindgarh (3 MLD)	
Sr.No.	Stage	Start Date	Completion Date
1	Preparation of DPR	NA	NA
2	Financial Closure	NA	NA
3	~~Tendering of the work including allotment~~	NA	NA
4	Commencement of the work	In progress	31.3.2019
5	~~Quarterly Milestones during the construction stage~~	-	-
6	Completion and commissioning	1.4.2019	30.5.2019
Name of the Project		Operation and Maintenance of STP, IFP, Nabha of 2.5 MLD (work already in progress)	
1	Preparation of DPR	NA	NA
2	Financial Closure	NA	NA
3	~~Tendering of the work including allotment~~	NA	NA
4	Commencement of the work	In progress	30.9.2019
5	~~Quarterly Milestones during the construction stage~~	-	-
6	Completion and commissioning	1.10.2019	30.11.2019

Annexure R - Timelines for Online Continuous Monitoring System for Industries

Sr No.	Activity	Date of Start	Date of completion
1	Procurement Process	01.08.2025	31.08.2025
2	Finalization of Supply orders	01.09.2025	30.09.2025
3	Installation of online continuous monitoring system	01.10.2025	30.11.2025
4.	Caliberation of online continuous monitoring system	01.12.2025	31.12.2025
5.	Connecting the online continuous monitoring system with the server of PPCB	01.01.2026	31.01.2026

Annexure S - Monitoring of Progress of projects for setting up of new/up graded facilities

Name of the Project		Progress achieved at the end of the month		
Brief Scope of the Project				
S. no.	Stage	Start Date	Completion Date	Current Status
1	Preparation of DPR			
2	Financial Closure			
3	Tendering of the Work including allotment			
4	Commencement of Work			
5	Quarterly Milestones during the construction / development Stage			
6	Completion and Commissioning			

Annexure T - Performa for operational record of the STP

Location of STP	Capacity of STP (MLD)	Reading of Water meter at 8 am	Quantity of waste water treated (in KLD)	Sludge wasted (kg/day)	Qty. of Chlorine used/ DAY (Kg/day)	Details of chemical used for dozing purpose and the component at which the same was imparted.	Name of the component remained out of order during the day and reasons thereof.	Qty of treated w/w reused for irrigation of agricultural land / irrigation of green area / construction purpose (KLD)	Qty of treated w/w discharged into drain leading to river Ghaggar (KLD)

Annexure U - Performa for keeping record of analysis result of STP

Date of Sampling	Point of sampling	Values of the parameters in mg/l except pH				
		pH	TSS (mg/l)	BOD (mg/l)	T.Coli (MPN/100 ml)	F.Coli (MPN/100 ml)

Annexure V - Proforma regarding inspection of industries by PPCB

S.No.	Name & location of the industry	Date of visit	Observations noticed during visit	Analysis results of trade effluent samples	Whether meeting with the effluent standards or not	Remarks, if any

Annexure W - Proforma for monitoring of water quality of River Ghaggar

Sr. no.	Sampling points at river Ghaggar	Date of Sampling	DO (mg/l)	pH	BOD (mg/l)	T.Coliform (MPN/100 ml)	D.B.U. classification

Annexure X - Proforma for submission of report regarding Health Check Camps

Sr. No.	Location of the camp	Date on which camp was organized	Name of the Doctor(s) & name of their organization	No. of people examined	No. of people found effected with water borne disease

Annexure Y - Proforma for submission of report regarding awareness programme

Sr. No.	City / Town / Location where the awareness programme is organized	Name of the Officer(s) who hold this programme	Date	No. of participants	Brief detail about awareness detail

Action Plan for Clean River Sutlej



Updated upto June-2025

**Directorate of Environment and Climate Change,
Department of Science, Technology and Environment,
Government of Punjab**

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Chapter 1 - Introduction

1.1 Punjab – Land of Rivers

- (i) The word Punjab is a compound of two Persian words, panj (“five”) and āb (“water”), thus signifying the land of five waters. The erstwhile Punjab State had five rivers namely Beas, Chenab, Jhelum, Ravi, and Sutlej. However, after the partition of India in 1947, only two rivers, the Sutlej and the Beas, lie within Punjab’s territory, while the Ravi flows only along part of its western border.
- (ii) The rivers in the State have been used as a source of irrigation, drinking purpose especially in southern Punjab, development of hydro-electric projects to meet the energy requirements in the State and various activities including industrial purposes. The rivers have played a significant role in the socio-economic and industrial development of the State.

1.2 Rapid Urbanization and Industrialization – Main cause of River Pollution

- (i) The rapid urbanization and industrialization during the last few decades have adversely affected the environment of the State. The quantum of sewage and sullage generated from the habitation areas has significantly increased and finding its way into natural drains, eventually leading to river line system of the State. In the rural areas, due to increase in the population, the capacity of most of the ponds has been exhausted due to which this sewage and sullage has also started flowing into the natural drains and finally becoming a part of river waters.
- (ii) Therefore, the quality of water flowing in the water bodies has deteriorated as these waters lack sufficient assimilation capacity for self-purification. This has been not only due to increase in the quantum of discharge of untreated sewage/ sullage, but, also due to decrease in the quantum of water in the water bodies owing to construction of dams & regulatory headworks on the upstream side.

1.3 About River Sutlej

- (i) The River Sutlej enters India near Mansarovar and flows North Westwards. It crosses great Himalayan ranges on its way from the Shipki pass. It flows upto Gobind Sagar Lake over which Bhakra dam is constructed. About 14 Kms. downstream of Bhakra dam, Nangal head-works are constructed at Nangal. From here onwards, the river takes southern direction. After flowing for another about 50 kms, it enters the plains near Ropar.
- (ii) At Ropar, there is a Head-Works for canal system to provide irrigation to large parts of the state. The gradient in the plains is very gentle. The river flows slowly downstream head-works due to broad bed width and meager flow; its major part having been diverted to the irrigation canals.

- (iii) It finally reaches Harike where it meets river Beas. During the monsoon period, the areas on both sides of river are prone to floods. The river leaves Punjab plains near Ferozepur and enters Pakistan.
- (iv) The total length of river Sutlej in the state of Punjab is approximately 440 km. Average discharge of river Sutlej in the state of Punjab as measured at Ropar is approximately 500 m³/ sec. The total catchment area of river Sutlej in the state of Punjab is approximately 20303 Sq. km.
- (v) There are 50 Urban Local Bodies (ULBs) falling in the catchment area of River Sutlej, which are discharging their effluent directly or indirectly into river Sutlej. The total sewage generation in the catchment area of Sutlej River has been estimated as 1236 MLD with gap in sewage treatment as 33.42 MLD.
- (vi) There are 2759 water polluting industries falling in the catchment area of river Sutlej which are discharging their trade effluent directly or indirectly into river Sutlej.

1.4 State's Efforts to control pollution in River Sutlej

- (i) The State Government had formulated Comprehensive Action Plan to control the pollution of River Sutlej and to achieve the desired river water quality i.e. "Class B" (BOD <3 mg/l and FC < 500 MPN/100 ml).
- (ii) The progress of action plan is being regularly monitored by 4-Tier Governance Mechanism (at District Level by the respective Deputy Commissioner & Divisional Commissioners in the meetings of District Environment Committee, at State Level by the Secretary, Environment in the meeting of River Rejuvenation Committee and by the Chief Secretary in the meeting of State Apex Committee).
- (iii) To address the pollution concerns, the State Government has undertaken Buddha Nallah Rejuvenation project with the financial assistance from Ministry of Housing & Urban Affairs under the scheme of Atal Mission for Rejuvenation & Urban Transformation with capital cost of Rs 519 Cr. Under this project, the Deptt. of Local Govt. has rehabilitated 2 No. Sewage Treatment Plants (STPs) of 111 MLD & 152 MLD capacity based on UASB technology at Bhattian & Balloke respectively, repaired 2 No. STPs of 50 MLD & 105 MLD capacity based on SBR technology at Bhattian & Balloke respectively and installed & commissioned 2 new STPs of 225 MLD & 60 MLD capacity based on SBR technology at Jamalpur & Balloke respectively to rejuvenate Buddha Dariya leading to improve upon the water quality of river Sutlej.
- (iv) For sewage management, 66 STPs of 1389.05 MLD capacity are already functional in the State, 11 STPs of 32.5 MLD capacity are under installation & 5 STPs of 40 MLD capacity are under various stages of planning for establishment. The treated sewage of 24 STPs (165.50 MLD) is reused for irrigation in a command area of 4044 Ha.
- (v) For the management of industrial effluent, 306 industries have installed Captive Effluent Treatment Plants (ETPs). 1599 small & medium scale industries are discharging their

effluent into Common Effluent Treatment Plant (CETP) of 0.8 MLD capacity at Ludhiana. Further, 413 small scale wire drying and pickling industries are discharging their effluent into reprocessing units for converting their waste into Ferrous Sulphate (Fe_2SO_4) ensuring zero liquid discharge. Further, 211 small & medium scale textile dyeing units located in the clusters at Focal Point, Tajpur Road & Bhadurke Road, Ludhiana are connected to 3 CETPs of 50 MLD, 40 MLD & 15 MLD respectively. 62 Tannery Units operating in Leather Complex, Jalandhar are connected to CETP of 5 MLD capacity.

- (vi) For the management of dairy waste, 1 Compressed Bio-gas (CBG) Plant of 200 TPD capacity is functional & another CBG plant of 300 TPD capacity is proposed to be set up at Haibowal Dairy complex, Ludhiana. Further, 1 more CBG Plant of 300 TPD capacity is proposed to be set up at Tajpur Dairy Complex, Ludhiana. 1 CBG plant of 300 TPD capacity is already under construction at Jamsher Dairy Complex, Jalandhar. 2 ETPs of 2.25 MLD & 3.75 MLD capacity have been installed for the management of waste water being generated from the dairy complexes of Tajpur & Haibowal respectively under Buddha Dariya Project. Similarly, one ETP of 2.25 MLD capacity has been installed at Jamsher Dairy Complex at Jalandhar.
- (vii) The State Govt. vide Order dated 13.11.2024 has constituted a Joint Group comprising representatives from the Central Govt. and all relevant Departments of the State of Punjab to diagnose the issues and to suggest corrective actions to control pollution of Buddha Dariya responsible for pollution of river Sutlej. The Joint Group has submitted its report to the Ministry of Jal Shakti as well as to the State Govt. in August, 2025.
- (viii) The State Govt. vide Notification dated 14.07.2025 has constituted a High-Level Committee under the chairmanship of Hon'ble Minister, Industries & Commerce and Chief Secretary, Punjab as Vice Chairperson Punjab and Punjab Development Commission, Administrative Secretaries of Industries & Commerce, Department of Science & Technology, Local Govt., Water Resources, CEO, PEDDA, DC, Ludhiana, MC, Ludhiana, IIT Ropar as members. The Committee shall develop a comprehensive short and long-term action plan for the cleaning and rejuvenation of Buddha Dariya, fast-track current and future priority infrastructure such as CBG plants, IPS construction, and STP/CETP installations, to develop frameworks & SOPs for STPs, CETPs, cow dung collection etc.
- (ix) The State Govt. vide notification no. 01-A/CAA/2022-23/10370 dated 25.07.2022 has also constituted a committee for the matter related to the issue of Buddha Dariya and River Ghaggar. This committee is conducting regular meetings with the stakeholder departments to monitor the progress of the rejuvenation of Buddha Dariya.

1.5 Directions issued by NGT

(i) O.A No. 138-139/2016

NGT vide Order dated 07.08.2018 in O.A. No. 138-139/2016 in the matter of in the matter of "Stench Grips Mansa's Sacred Ghaggar river with Yogender Kumar" directed that at the State level, the Special Task Force (STF) comprising of the Chief Secretary, the Environment

Secretary, the Secretary of Urban Development and Secretary of Local Bodies be constituted.

In compliance, the State of Punjab had constituted a State Level Special Task Force (also called as State Apex Committee) dated 14.11.2018 under the Chairmanship of Chief Secretary, Punjab.

(ii) O.A No. 673/2018

- a. NGT vide order dated 20.09.18 in OA no. 673/2018 titled as, "News item published in "The Hindu" authored by Shri. Jacob Koshy titled "More river stretches are now critically polluted: CPCB" has directed the State to prepare Action Plans within two months for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e BOD <3 mg/l and FC< 500 MPN/100 ml) within six months from the date of finalization of the action plans. Further, NGT vide said Order directed the State to constitute a committee of four-members called River Rejuvenation Committee (RRC). This Committee will also be the Monitoring Committee for execution of the action plan.

In compliance, RRC was constituted by the State Govt. vide Order dated 19.11.2018 under the Chairmanship of Administrative Secretary, Department of Science, Technology & Environment.

Further, NGT vide above said Order divided the polluted river stretches in five priority categories i.e. I, II, III, IV & V depending upon the level of BOD with criteria as under:

Criteria for Priority-I

- Monitoring locations exceeding BOD concentration 30 mg/l has been considered as it is the standard of Sewage Treatment Plant and in river it appears without dilution. (River location having water quality exceeding discharge standards for BOD to fresh water sources).
- All monitoring locations exceeding BOD concentration 6 mg/l on all occasions.
- Monitoring locations exceeding 3 mg/l BOD are not meeting desired water quality criteria but does not affect to dissolved oxygen level in water bodies. If BOD exceeds 6 mg/l in water body, the dissolved oxygen is reduced below desired levels.
- The raw water having BOD levels upto 5 mg/l does not form complex chemicals on chlorination for municipal water supplies. Hence the water bodies having BOD more than 6 mg/l are considered as polluted and identified for remedial action.

Criteria for Priority-II

- Monitoring locations having BOD between 20-30 mg/l.
- All monitoring locations exceeding BOD concentration 6 mg/l on all occasions.

Criteria for Priority-III

- Monitoring locations having BOD between 10-20 mg/l.

- All monitoring locations exceeding BOD concentration 6 mg/l on all occasions.

Criteria for Priority-IV

- Monitoring locations having BOD between 6-10 mg/l.

Criteria for Priority-V

- Monitoring locations having BOD between 3-6 mg/l.
- The locations exceeding desired water quality of 3 mg/l BOD.

- b. NGT vide order dated 08.04.2019 in OA No. O.A No. 673 of 2018 directed State of Punjab to submit performance guarantee of Rs. 5.0 Crore for the 4 polluted river stretches falling in the State. PPCB vide letter dated 19.03.21 submitted the same with CPCB.

In compliance, Punjab Pollution Control Board has deposited Rs 5 Crores with CPCB on dated 19.03.2021.

- c. NGT vide order dated 22.02.2021 in OA No. 673/2018 directed that States/UTs will be liable to pay compensation @Rs. 5 lakhs per month per drain for default in in-situ remediation, @Rs. 5 lakhs per month per STP for default in commencement of setting up of the STPs by 30.06.2020 and Rs. 10 lakhs per month per STP for default in commissioning of STPs by 30.06.2021.

In compliance, Punjab Pollution Control Board is imposing Environmental Compensation on Local Government for default in in-situ remediation, commencement of setting up of the STPs and commissioning of STPs.

(iii) O.A No. 148/2016

NGT vide Order dated 27.11.2018 in OA. No. 148/2016 (M.A. No. 686/2017) titled as Mahesh Chandra Saxena Vs South Delhi Municipal Corporation & Ors. has directed all the States & Union Territories to prepare and furnish their Action Plans for utilization of treated wastewater in their respective States/UTs within three months.

In compliance, the State had submitted the Action Plan for Reuse of Treated Wastewater to CPCB on 29.04.2019.

(iv) O.A No. 325/2015

- a. NGT vide order dated 10.05.2019 in M.A. No. 26/2019 in O.A. No. 325/2015 titled "Lt. Col. Sarvadaman Singh Oberoi Vs UOI & Ors" directed that all States and UTs to review the existing framework of restoration all the water bodies by preparing an appropriate action plan.

In compliance, the State had submitted the Action Plan for Rejuvenation of Ponds to CPCB on 31.03.2020.

- b. NGT vide Order dated 18.11.2020 in OA No. 325/2015 in the matter of Lt. Col. Sarvadaman Singh Oberoi V/s. Union of India & Ors., directed all States/UTs to designate a Nodal Agency for restoration of water bodies, wherever no such agency has so far been so designated.

In compliance, Punjab Pollution Control Board has been designated as Nodal Agency for Restoration of Water Bodies in the State of Punjab vide Govt. Order dated 15.12.2020.

(v) O.A No. 360/2018

- a. NGT vide Order in O.A. No. 360/2018 dated 26.09.2019 in the matter of "Shree Nath Sharma V/s. Union of India" directed the State to constitute District Committee for preparing and monitoring the progress of District Environment Plans.

In compliance, the State of Punjab had constituted a District Environment Committees vide Notification dated 31.10.2019 under the Chairmanship of respective Deputy Commissioners.

- b. NGT vide order dated 18.08.2022 in O.A. No. 360/2018, directed that after dissolution of Monitoring Committee headed by Justice Jasbir Singh, former judge, Punjab & Haryana High Court on 31.12.2022 that the monitoring work being undertaken by the said Committee may be taken over by the Chief Secretary for being continued through appropriate administrative monitoring mechanism under them.

In compliance, the State Govt. has issued directions to all the Divisional Commissioners on 17.01.2023 to monitor the District Environment Plans (DEPs) in their respective Districts on behalf of Chief Secretary, Punjab from 1.01.2023 onwards. The Divisional Commissioners are regularly monitoring the DEPs & submitting their bi-monthly reports for further review in the meeting of State Apex Committee.

(vi) O.A No. 606/2018

- a. NGT vide dated 22.09.2022 in O.A. No. 606/2018 in the matter "Compliance of Municipal Solid Waste Management Rules, 2016 and other Environmental Issues" directed the State of Punjab to deposit Rs. 2080 crore in a separate ring-fenced account within 2 months, to be operated as per directions of the Chief Secretary and utilized for restoration measures.

In compliance, a Committee under the Chairmanship of Administrative Secretary, Dept. of Local Govt. was constituted vide STE Order no. 3/17/2020-STE (5)/457018/I dated 11.11.22 to regularly assess the progress in bridging the gaps in sewage & solid waste management and to periodically report to Chief Secretary, Punjab. Further, for ring fencing the funds of Rs. 2080 Cr, an order has been passed by the worthy Chief Secretary vide No. 3/17/2020-STE (5)/478 dated 22.11.22.

- b. NGT vide order dated 25.07.2024 in O.A No. 606/2018 directed the State of Punjab through Chief Secretary to deposit Rs. 1026.19 Cr. towards Environmental Compensation with CPCB within one month and submit the compliance report.

In compliance, the NGT vide order dated 26.03.2025 directed that the Tribunal has examined the report filed by the State on 26.02.2025 & found the gaps and deficiency in solid waste management, liquid waste management & in ring fencing of account. NGT further directed the State to file a fresh report by at least one week before date of hearing i.e. 28.10.2025.

The State, in context of above said Order of Hon'ble NGT, has filed appeal before Hon'ble Supreme Court of India which is due for hearing on 06.02.2026.

(vii) O.A No. 976/2019

NGT vide its order in O.A No. 976/2019 dated 21.10.2022 directed that the process of planning and execution for utilization of Environmental Compensation (EC) Funds being collected by statutory regulators particularly State PCBs and State Environmental Impact Assessment Authority, Water Resource Authorities etc may be preferably entrusted to a High-Powered Committee of three Additional Chief Secretaries, identified by the Chief Secretary within one month. Such plans and progress in execution may be placed on websites of the States/UTs after every six months.

In compliance, High-Powered Committee comprising of three Administrative Secretaries of DLG, DRDP, & STE (Convenor) was constituted vide Notification No. 10/01/2023-STE2/03 dated 03.01.2023 which is regularly conducting the meetings of the Committee for utilization of EC funds.

(viii) O.A No. 225/2022

NGT vide Order dated 22.07.2025 titled "Nitin Dhiman v/s State of Punjab" has clubbed all the O.A.s including O.A No. 546/2024, 1325/2024, 1326/2024, 1327/2024, Appeal Nos. 40/2024, 41/2024, 48/2024, 51/2024, 18/2025, 20/2025 & Execution Application No. 46/2025, 45/2025, 42/2025. The said order is regarding the issue of the discharge of effluent through the sewer by the dyeing units in Buddha Nallah in the State of Punjab. The SPVs of the CETPs of 40 MLD, 50 MLD & 15 MLD have filed the appeals against the direction of PPCB under Section 33 A of The Water (Prevention and Control of Pollution) Act, 1974 issued to the SPVs of these CETPs for closure of outlets. NGT has directed PPCB to place on record the full details relating to the calculation of environmental compensation and status of its recovery imposed on these CETPs and MoEF&CC is directed to file the progress report/compliance affidavit regarding hearing to the representatives of the residents of the area and taking a decision at least one week before the next date of hearing.

- (ix)** Ministry of Jal Shakti, Govt. of India has requested the State vide letter dated 07.03.2025 to direct River Rejuvenation Committee (RRC) to update the Action Plans of Polluted River Stretches of Punjab identified as Polluted River Stretches of Priority -I, i.e., Sutlej and Ghaggar and review the implementation of these plans on regular basis.

Chapter 2 – Vision, Mission and Strategy

2.1 Vision for Clean River Sutlej

To restore the quality of water in River Sutlej to prescribed standards to ensure ecological balance and socio-economic well-being of the people.

2.2 Mission Clean River Sutlej

To prepare and implement a comprehensive action plan to clean River Sutlej:

- (i) Creating awareness about the adverse impact of water pollution
- (ii) Identifying the sources of water pollution
- (iii) Setting up facilities for treating the pollutants
- (iv) Ensuring effective operations of the facilities
- (v) Ensuring effective monitoring of the quality of water
- (vi) Mitigating adverse impact on health of the people in the surrounding areas

2.3 Strategy for Clean River Sutlej

The strategy for clean River Sutlej includes:

- (i) Identification of Stakeholders
- (ii) Identification of sources of pollution
- (iii) Measures to control pollution and timelines
- (iv) Nodal Departments
- (v) Integration of Departmental Plans
- (vi) Monitoring and Review
- (vii) Risk Mitigation Plan

2.4 Identification of the Stakeholders and their roles

The State of Punjab envisages a comprehensive plan for cleaning of River Sutlej by involving all the Stakeholders namely:

(i) Department of Science, Technology and Environment

a. Directorate of Environment and Climate Change

Directorate of Environment and Climate Change shall be responsible for overall coordination of the Action Plan for ensuring its successful implementation through regular monitoring.

b. Punjab Pollution Control Board

- i. Regulation of STPs/ CETPs/ ETPs
- ii. Laying down discharge standards for STPs/CETPs/ETPs
- iii. Setting up of Infrastructure to monitor river water quality
- iv. Monitoring of quality of water of River Sutlej
- v. Monitoring of discharge from Industries including ETPs and CETPs
- vi. Monitoring of discharge from STPs and other disposal facilities
- vii. Monitoring of management of solid waste and other waste

(ii) Department of Local Government

As per the policy decision of the Department of Local Government, all Municipal Corporations are responsible for execution of their water supply and sewerage works including setting up of STPs while all Municipal Council will get the works executed through Punjab Water Supply and Sewerage Board. The policy is yet to be fully implemented as some Corporations are still relying on PWSSB for execution of works, on the other hand, some Municipal Councils are executing works on their own instead of PWSSB.

Design

- a) Design projects to cover entire population with sewerage network system and its connection with STP.
- b) Design Sewage Treatment Plants of adequate capacity
- c) Design as per the prescribed standards

Construction

- a) Monitor land acquisition closely as it is pre-requisite for setting up of STPs
- b) Ensure reputed professional contractors
- c) Construction of STPs as per timelines mentioned in the action plan
- d) Ensuring regular flow of funds during construction

Operation and Maintenance

- a) Arranging funds for operation and maintenance of STPs to ensuring regular operation and maintenance of STPs in a professional manner
- b) Providing proper in-house laboratory facilities at each STP for maintaining record of characteristics of analysis of untreated as well as treated waste water
- c) Installation, operation & maintenance of online continuous effluent monitoring system as well as CCTV cameras for the existing STPs as well as new STPs to be installed.

Solid Waste

- a) Proper management & handling of municipal solid waste so as not to be thrown in river.
- b) The Municipal Corporation mainly of Ludhiana and Jalandhar are responsible for the Scientific Management & disposal of dairy waste (Solid as well as liquid) being generated from dairies located within Municipal limits.

(iii) Department of Rural Development and Panchayat

The Department of Rural Development (DRDP) has to provide for necessary treatment facilities in village ponds so that no untreated or polluted water enters river directly or indirectly through various drains or creeks. The Department has the following responsibilities:

- a) Finalization of appropriate technology
- b) Arrangement of Funds for treatment technology in various villages identified in the Action Plan
- c) Reuse of water for agriculture purpose
- d) Proper operation and maintenance of treatment facilities installed in village ponds
- e) DRDP is responsible for the Scientific Management and disposal of dairy waste (solid as well as liquid) being generated by Dairies located outside the Municipal limits.

(iv) Department of New & Renewable Energy

Punjab Energy Development Agency (PEDA) in collaboration with the concerned Municipal Corporation/Council shall facilitate the setting-up of CBG plants for the scientific management of cow dung being generated from the dairies located within MC limits. Further, PEDA in collaboration with DRDP is responsible for facilitating the setting up of CBG plants for the scientific management of cow dung being generated from the scattered dairies & Gaushalas located outside MC limits.

(v) Department of Housing and Urban Development

The Department and all the Development authorities under its control are responsible for various Urban Estates developed by them. In addition, the Government has entrusted construction and subsequent operation and maintenance of Sewerage network and Sewage Treatment Plants in some of the cities to various Urban Development Authorities. In all cases, where the Urban Development Authorities are discharging the functions, they shall have all the responsibilities listed out in clause 2.4.3 for Department of Local Government.

(vi) Department of Industries and Commerce

Department of Industries and Commerce through Punjab Small Industries & Export Corporation (PSIEC) is responsible for management of Industrial Focal Points set up by it or transferred to it. PSIEC shall have all the responsibilities listed out in clause 2.4.3 for Department of Local Government in respect of Industrial Focal points.

(vii) Department of Water Supply and Sanitation

The Department of Water Supply and Sanitation along with Department of Rural Development and Panchayat will be responsible for treatment and sanitation facilities in rural areas. It has also been given some of the works in urban areas. It will accordingly discharge relevant responsibilities for rural and urban areas in respects of projects, which may be assigned to the Department.

(viii) Department of Soil & Water Conservation

The Department of Soil & Water Conservation is responsible for implementation of various schemes for utilizing the treated wastewater from urban and rural treatment facilities for irrigation by the farmers. It has the following responsibilities:

- a) Design the project as per the standards
- b) Follow up with various funding agencies to arrange funds
- c) Executing the schemes as per the timelines provided in the plan

(ix) Department of Health and Family Welfare

The Department of Health and Family Welfare has the following responsibilities:

- a) Checking of health indices of the in-habitants & maintaining database
- b) Holding awareness camps in the catchment area of River Sutlej to make the public aware regarding water borne diseases.

(x) Department of Water Resources

The Department of Water Resources through the Chief Engineer, Drainage has the following responsibilities:

- a) Measurement of flow at different locations
- b) To stop unauthorised discharge in the drains
- c) Groundwater Recharge Initiatives
- d) Watershed Management
- e) Protection and Management of Flood Plain Zones
- f) E. Flow (Ecological/Environment Flow)
- g) Release of fresh water in river to maintain water quality
- h) To stop unauthorised discharge in the drains
- i) Notification of drains/Choes/rivers/Nallahs
- j) Removal of pollution points

(xi) Mandi Board

The Punjab Mandi Board shall be responsible for installing and operating the ETP for the treatment of effluent generated from Fish Market Tajpur Road, Ludhiana and explore alternative for mode of disposal such as ZLD or irrigation with the compliance of notification by Government of Punjab, dated 10.10.2019.

(xii) Department of Forest & Wildlife Preservation & Punjab Bio-Diversity Board

Department of Forest & Wildlife Preservation & Punjab Biodiversity Board shall be responsible for the following:

- a) Plantation on both sides of river and in the Flood Plain Zones
- b) Biodiversity Conservation and setting up of Biodiversity parks

(xiii) District Administration

District Administration shall be responsible for monitoring of activities of the action plan at district level.

2.5 Nodal Department

The Department of Science, Technology and Environment through Directorate of Environment & Climate Change shall be the Nodal Department for coordinating and monitoring activities of the plan.

2.6 Integration of Departmental plans

The Nodal Department will integrate plans of individual departments for control of pollution from various sources and prepare a comprehensive plan and will coordinate its execution by tracking the progress through a centralized IT platform.

2.7 Monitoring and Governance

- (i) There will be rigorous monitoring of implementation of the comprehensive plan:
 - (a) Monitoring of physical and financial progress of works being executed
 - (b) Monitoring of operations and management of facilities set up
 - (c) Monitoring of quality of water
 - (d) Monitoring of health and diseases in the surrounding areas
 - (e) Monitoring of awareness campaign
- (ii) Setting up of IT platform for tracking progress and analysis
- (iii) The monitoring will be done at the district level i.e. by the respective Deputy Commissioner and by the respective Divisional Commissioner on behalf of Chief Secretary and at State Level at the Level of Administrative Secretary, Environment & Chief Secretary, Punjab.

Chapter 3 - Status of Water Quality, Biodiversity & Watershed Management

3.1 Monitoring Locations for Water Quality

The water quality of river Sutlej is being monitored at 10 locations by Punjab Pollution Control Board, starting from upstream of Nangal (where it enters State of Punjab) upto Hussainiwala in Distt. Ferozepur on monthly basis:

- (i) River Sutlej D/S of Rishab- Paper Mills
- (ii) River Sutlej U/S Buddha Nallah
- (iii) River Sutlej at 100 mts D/s after Budha Nallah confluence, Ludhiana
- (iv) River Sutlej at Boat Bridge, Dharamkot Nakodar Road
- (v) River Sutlej at D/s East Bein
- (vi) River Sutlej at Harike
- (vii) Harike Lake D/S from canal
- (viii) D/S Harike lake
- (ix) U/S Hussainiwala H/W Ferozepur
- (x) D/S Hussainiwala H/W Ferozepur

3.2 CPCB's norms for designated best use of water bodies

The Central pollution Control Board has laid down criteria for designated best use class of the water of the water bodies, which is as under:

S.No.	Constituent Parameters	Designated Best Use Class				
		A	B	C	D	E
1.	Dissolved oxygen, mg/l, Min	6	5	4	4	-
2.	Biochemical Oxygen Demand, mg/l, Max	2	3	3	-	-
3.	Total coliform Organisms MPN/100 ml, Max	50	500	5000	-	-
4.	pH value	6.5-8.5	6.5-8.5	6-9	6.5-8.5	6-8.5
5.	Free ammonia (As N) mg/l, Max	-	-	-	1.2	-
6.	Electrical conductivity μ s/cm max.	-	-	-	-	2250
7.	Sodium absorption ratio, Max.	-	-	-	-	2.6
8.	Boron, mg/l, Max	-	-	-	-	2

Note:

Class A: Drinking water sources without conventional treatment, but after disinfection

Class B: Organized outdoor bathing

Class C: Drinking water sources with conventional treatment followed by disinfection

Class D: Propagation of wild life and fisheries

Class E: Irrigation, Industrial cooling and controlled water disposal

CPCB has published the report “Polluted River Stretches for Restoration of Water Quality-Sept.-2025” regarding identification of polluted river stretches in India. There are 2 polluted stretches identified in the State of Punjab as per the details given:

River	Focus River Stretch	Priority Class as per CPCB Report 2025	Target
Sutlej	Nangal to Harike	I	Class B
Ghaggar	D/S Parwanoo – D/S Sardulgarh	I	Class B

- (i) The river Beas has been designated as Model River of Punjab.

3.3 Current Status of Quality of Water in River Sutlej

PPCB reported that the river water quality has improved at many points from Class-C to Class B as is given in **Annexure-1**. However, the downstream water quality has remained critical post Budha Darya confluence. The concerted efforts are being made w.r.t Budha Darya rejuvenation, Urban sewage treatment in Ludhiana & downstream towns and Sustained monitoring & stricter enforcement in high-impact zones.

The details of analysis results of surface water monitoring under National Water Monitoring Program (NWMP) for the year 2021-22, 2022-23, 2023-24 & 2024-25 is given in **Annexure-2**.

3.4 Installation of Real Time Continuous Monitoring Systems at critical locations

Punjab Pollution Control Board has installed 4 real time continuous monitoring stations for surface water quality at various critical locations including Ropar Headworks, D/S Budha Nallah Sindhwa bet (On bridge connected Jagroan Jalandhar Road), D/S East Bein (Makhu- Malsia Road at Village Gidder Pindi near Toll Plaza) and Harike Lake (Rajasthan Feeder).

3.5 Notification of drains/Choes/Nallahs

Section 38 of Canal and Drainage Act 2023 empowers State Govt. that in case an injury to any land or the public health or public convenience has arisen or may arise from the obstruction of any river, stream or drainage channel, such State Govt. may, by notification, the formation of any obstruction or may, within such limits, order the removal or other modification of such obstruction. Under this, the Department of Water Resources has notified a total of 849 drains till July 2025.

3.6 Environmental Flow (E. Flow)

'Environmental Flows' is minimum quantity of continued availability of water in the river to ensure downstream environmental, social & economic benefits as well as sustainability of its aquatic ecosystem. It should be measured at different locations and records be maintained by Department of Water Resources, Punjab. Fresh water flowing through escape channels/small

barrages should be checked. Good quality of water may be used for dilution to reduce concentration of pollutants to meet the desired level of water quality and extent of flow as per prescribed norms. Dilution of pollution will be used only after achieving degree of required treatment for municipal sewage and industrial effluents. A minimum of 15% of average lean season flow is being maintained in river Sutlej (640 cusecs).

3.7 Flood Plain Zones

Efforts are underway to demarcate flood plains, remove illegal encroachments, and maintain minimum ecological flow in rivers like Sutlej and Beas. In this regard, the Notification of Rivers and rains is already underway. Satluj River in the Ferozepur and Tarn-Taran districts has already been notified via letter no. WRIRWR04/ 22/2023-IW3/319 Dated 25-09- 2023 and Notified vide letter No. 04/01/2023- IW3/364 dated 16-10-2023. In District Ferozepur and Tarn-Taran, the area as per the above notification was also notified in Flood Plain Zone.

3.8 Groundwater Recharge Initiatives:

- a) 159 no's ground water recharges schemes were completed by the department in FY 2024-25.
- b) 1156 no. Check Dams and 3957 soak pits are being proposed on various rivers/Nallahs of Punjab to recharge groundwater in current FY 2025-26.

3.9 Biodiversity Profile

Physiographically, the whole Sutlej River basin area in Punjab, except foot hills of the Shivalik has undulating to flat topography. The soils of the basin area mostly consist of alluvial deposits. Three (3) Wildlife Sanctuaries namely Nangal and Jhajjar Bacholi, District Rupnagar and Harike, District Tarn Taran & Kapurthala having rich biodiversity falls under the Sutlej River Basin area in Punjab. Two wetlands of international significance under Ramsar convention i.e. Ropar & Harike and one National wetland i.e. Nangal Lake are also located on the river Sutlej. These wetlands are important aquatic eco system and harbouring many species of waterfowl, fish and other flora fauna.

The biodiversity in the Sutlej River catchment area is under threat due to growing population, intensive & extensive agriculture, reclamation of barren land, pollution and habitat loss. The forest cover in the Sutlej catchment ranges from the category of northern dry deciduous mixed forest and dry deciduous scrub forest comprising dominance tree species like Khair (*Acacia catechu*), Kikkar (*Acacia nilotica*), Black Siris (*Albizia lebbek*), Safeda (*Eucalyptus tereticornis*), Kamala (*Mallotus philipines*), Dak (*Melia azedarach*), Sukhchain (*Pongamia pinnata*), Tahli (*Dalbergia sissoo*), Toot (*Morus alba*), Mesquite (*Prosopis juliflora*), etc and many species of shrubs including Castor (*Ricinus Communis*), Mallah (*Zizyphus nummularia*), Karir (*Capparis deciduas*), Ak (*Calotropis procera*), Vasaka (*Adhatoda vasica*), Indirain (*Citrullus colocynthis*), Asegandha (*Withania somnifera*), Giloe (*Tinospora Cordifolia*) etc.

Further, various species of mammals, reptile, fish, amphibians and aquatic & terrestrial birds are also reported in river Sutlej and its adjoining areas.

3.10 Watershed Management in the Catchment Area

Integrated Watershed Management Programme (IWMP) is one of the flagship programmes of the Government of India and aims at prevention of soil run-off, regeneration of natural vegetation, rain water harvesting & recharging of the ground water table for restoring the ecological balances of an area. This programme also enables multi-cropping & introduction of diverse agro-based activities, which help in providing sustainable livelihoods to the people residing in the watershed area.

The major activities of Department of Soil & Water Conservation includes construction of check dams/water harvesting structures, rain water storage and recharging, silt detention structures, stream bank protection, contour bunding, runoff check and drop structures, retaining walls & percolation tanks, vegetative hedges, efficient conveyance of water through underground pipeline system, artificial roof-top rainwater harvesting & recharging, renovation of village Ponds, agro forestry plantation, etc. The livelihood and farm production support were extended through formation of Self-help Groups for pickle and food processing etc., distribution of improved varieties & agriculture inputs and livestock support programmes to develop additional source of income for farmers and landless. Regular trainings were provided to all the beneficiaries to enhance their capacities.

Chapter 4 - Sources of Water Pollution & Infrastructure Available

4.1 Major Drains

There are 30 major drains/ choes/ nallahs, which are directly discharging into the river Sutlej. The details of these drains/ choes/ nallahs are given in **Annexure-3**. Apart from this, there are 84 sub drains, which are meeting with above 30 major drains. The details of these sub drains are also given in the **Annexure-4**.

4.2 Major Sources of Pollution

There are following major sources polluting the river Sutlej:

- (i) Sewage/ sullage generated from Urban Areas
- (ii) Sewage/ sullage generated from Rural Areas
- (iii) Industrial sources
- (iv) Wastewater and Cowdung generated from Dairies
- (v) Other Sources

4.3 Sewage/ sullage generated from Urban Areas

- (i) There are 50 Urban Local Bodies (ULBs) falling in the catchment area of River Sutlej, which are discharging their wastewater directly or indirectly into river Sutlej. The total sewage generation in the catchment area of Sutlej River has been estimated as 1236 MLD with gap in sewage treatment as 33.32 MLD.
- (ii) Out of 50 ULBs, 37 ULBs have installed treatment facilities (66 STPs of 1389.05 MLD capacity) (**Annexure-5**) whereas, no treatment facilities exist in the remaining 13 ULBs.
- (iii) Out of 37 ULBs, 2 ULBs namely Sri Musktsar Sahib & Moga have installed STPs meeting partial requirement for which 2 No. STPs of 35 MLD capacity (5 MLD for Muktsar Sahib & 30 MLD for Moga) are proposed to be installed.
- (iv) As per the findings of report of Joint Group of Central & State Govt. Departments constituted by Department of Science, Technology & Environment, Govt. of Punjab vide no. STE-STEB010/534/2024-STE4-Part (1)/783 dated 13.11.2024, the average discharge near the confluence point of Buddha Nallah with river Sutlej has been measured as 615.75 MLD with peak discharge as 671 MLD. The average total discharge into river Sutlej from Ludhiana city including Buddha Nallah and direct discharge of treated sewage from STP Bhattian has been estimated as 690 MLD. The status of capacity utilization of STPs in Ludhiana city is as under:

Description of STP	Installed Capacity (MLD)	Technology	Utilized Capacity (Feb 2025) (MLD)	Discharge into
Within Municipal Limits				
Jamalpur	225	SBR	166.46	Buddha Nallah
Bhattian	111	UASB	56.46	Sutlej
	50	SBR	19.46	Sutlej
Balloke	152	UASB	108.62	Buddha Nallah
	105	SBR	73.80	Buddha Nallah
	60	SBR	49.14	Buddha Nallah
Total	703 MLD		473.94 say 475 MLD	
Upstream Municipal Limits				
Macchiwara	4	SBR	2.54	Buddha Nallah
Sahnawal	7	SBR	4.62	Buddha Nallah
Overall Total	714 MLD		7.16 MLD	
Downstream Municipal Limits				
No township is discharging sewage into Buddha Nallah. Therefore, no STP is required.				

4.4 Sewage/ sullage generated from Rural Areas

There are 336 villages, which are discharging their wastewater either directly or indirectly through various drains / nallahs/ creeks. Out of 36 villages, the work for rejuvenation of ponds was completed in 75 villages, ongoing in 18 villages and yet to start 243 villages. The details of these villages are already given in **Annexure-6**.

4.5 Industrial Sources

- (i) There are 2759 water polluting industries falling in the catchment area of River Sutlej, which are discharging their trade effluent either directly or indirectly into River Sutlej. Category and area wise details of these units are as under:

Sr. No.	Industrial sector	No. of industries					
		Ludhiana	Jalandhar	Phagwara	Hoshiarpur	Ropar	Moga
1.	Dyeing	251	1	1	0	0	0
2.	Pulp & Paper	1	0	0	0	1	0
3.	Thermal	0	0	0	0	1	0
4.	Chlor Alkali	0	0	0	0	1	0
5.	Cement	0	0	0	0	1	0
6.	Fertilizer	0	0	0	0	1	0
7.	Sugar Mills	0	0	1	1	0	0
8.	Electroplating / Surface treatment	1772	264	6	1	<u>3</u>	0
9.	Tannery	0	87	0	0	0	0
10.	Others (Washing of garments/ service station/ food processing/ milk plant etc.)	296	41	5	20	2	1

TOTAL	2320	393	13	22	10	1
Grand Total	2759					

- (ii) The large-scale electroplating / surface coating units at Ludhiana have provided their captive treatment plants based on the Zero Liquid Discharge Technology (ZLD). Rest of the electroplating / surface coating / metal finishing units either have their captive treatment plants or are the member of CETP provided at Phase-8, Focal Point, Ludhiana.
- (iii) The acid pickling units generating spent acid (H₂SO₄) are connected with the reprocessing units, which converts the spent acid into the products like ferrous sulphate.
- (iv) The other industrial units have provided their own / captive treatment plants for the industrial wastewater being generated from their processes.
- (v) 211 small & medium scale textile dyeing units located in the clusters at Focal Point, Tajpur Road & Bhadurke Road, Ludhiana are connected to 3 CETPs of 50 MLD, 40 MLD & 15 MLD respectively. The details of CETPs installed at Ludhiana city with respect to their capacity utilization, as reported in the report of Joint Group of Central & State Govt. Departments constituted by Govt. of Punjab vide order dated 13.11.2024 are as under:

Sr. No.	Description	No. of Member Units	Capacity (MLD)	Utilized Capacity (MLD)	Technology
1.	CETP Electroplating	1300	0.80	0.50	ZLD
2.	CETP Bahadurke Road	36	15	12.50	SBR
3.	CETP Tajpur Road	108	50	40	SBR
4.	CETP Focal Point	67	40	25.63	SBR

- (vi) There are 54 scattered textile dyeing units. Out of the 54 scattered units, 14 units either have been closed or closed their wet processes. Rest of the units have their captive ETPs. These units are being persuaded either to connect with CETPs, or to adopt ZLD treatment systems so as to stop effluent discharge into public sewers. Majority of the units have submitted their proposals for ZLD or shifting and are in process of compliance.
- (vii) 62 Tannery Units operating in Leather Complex, Jalandhar are connected to CETP of 5 MLD capacity. Treated effluent from this CETP is discharged into Kala Sanghian Drain after mixing with STP treated water. Kala Sanghian Drain ultimately leads to River Sutlej through East Bein. 14 bag tanning units have been connected to CETP of 35 KLD capacity at Phillaur, the treated effluent from CETP Phillaur is being discharged into Municipal sewer leading to STP, Phillaur (South) of capacity 03 MLD based on MBBR technology. The treated sewage from STP, Phillaur (South) of capacity 03 MLD is discharged into river Sutlej during no demand period and is utilized for irrigation purposes during demand period, which ultimately discharged their treated wastewater into Sutlej River.

4.6 Wastewater and Cowdung generated from Dairies

- (i) Around 1300 dairies located at Tajpur & Haibowal Dairy Complex at Ludhiana and Nahal & Jamsher Dairy Complex at Jalandhar including scattered dairies are generating around 900 TPD of cow dung. These dairies are source of cow dung & liquid waste. The dairies located at Ludhiana are discharging their wastewater into Buddha Nallah whereas the dairies located at Jalandhar are discharging their waste water into Kala Sanghian drain.
- (ii) As reported in the report of Joint Group of Central & State Govt. Departments, the cow dung generation from 851 dairies located within MC limits of Ludhiana has been estimated as 658.65 TPD with details as under:

Sr. No.	Description	No. of Dairies	No. of Animals	Cowdung Generation (TPD)
1.	Tajpur Dairy Complex	198	12170	182.55
2.	Haibowal Dairy Complex	466	26991	347.10
3.	Scattered	179	4973	75.00
4.	Gaushala	8	3573	54.00
	Total	851	47707	658.65

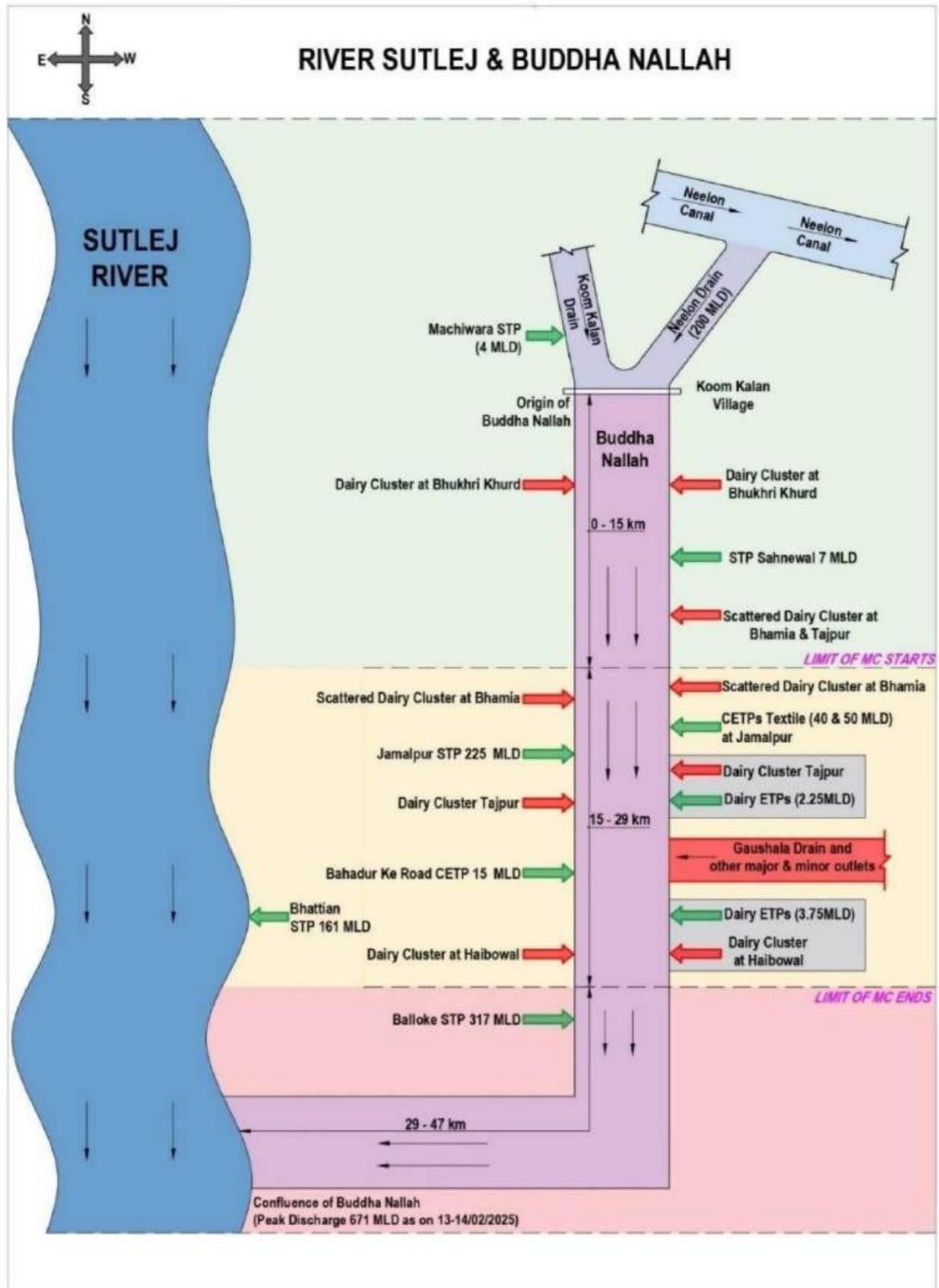
- (iii) Around 70 dairies located upstream of Ludhiana city at Village- Bhukri Kalan, Bhukri Khurd, Bhamian Kalan & Khasi Kalan and other adjoining villages are directly disposing of their effluents into Buddha Nallah.
- (iv) For the management of cow dung being generated from the dairies located at Haibowal Dairy complex, Ludhiana, 1 CBG plant of 200 TPD capacity is functional. Further for the treatments of liquid waste being generated from the dairy complexes of Tajpur & Haibowal, 2 ETPs of 2.25 MLD & 3.75 MLD capacity have been installed under Buddha Dariya Project. However, these ETPs are facing operational challenges due to the consistent influx of cow dung from dairies which is impacting their efficiency.
- (v) The cow dung generation from 29 dairies located at Nahal dairy complex and 362 dairies at Jamsher Dairy Complex, Jalandhar has been estimated as 45 TPD & 200 TPD respectively. Further the liquid waste being generated from Jamsher Dairy Complex is being treated in ETP of 2.25 MLD capacity and the liquid waste being generated from Nahal Dairy Complex is discharged into Kala Sanghian Drain. However, the issue of untapped dairies which are not connected to the ETPs still remain unresolved.

4.7 Other Sources:

The other sources include leachate from municipal solid waste dump site, discharge from industries located in non-designated areas, discharge from fish markets, discharge from illegal colonies, carcass handling unit etc.

4.8 Sources of Pollution into Buddha Nallah

- (i) Buddha Nallah carries pollution caused by untreated industrial effluents and domestic sewage to river Sutlej. The Buddha Nallah can be broadly classified into three streams namely upstream (0-15 km), within MC limit (15-29 km) and downstream (29-47 km). As per the report of Joint Group of Central & State Govt. Departments, 156 outlets (domestic sewage, village ponds, dairies, storm water, CETPs, STPs) have been identified for discharging their waste water into Buddha Nallah. Out of 156 outlets, 96 outlets have been identified to be discharging their effluent upstream of Buddha Nallah, 3 outlets downstream of Buddha Nallah & 57 outlets within city limits. Out of 57 outlets, 42 outlets are from dairy complexes. The schematic diagram indicating the various sources of Pollution in Buddha Nallah is provided on the next page.



Chapter 5 - Other Sources of Pollution and Their Management

5.1 Bio Medical Waste

- (i) The bio-medical waste of all the Healthcare Facilities in the State is collected, transported, treated and disposed of by 6 authorized Common Bio-Medical Waste Treatment Facilities (CBWTF) located at Ludhiana, SAS Nagar, Amritsar, Sri Muktsar Sahib, Jalandhar and Pathankot. The Bio-Medical Waste generation in the State is in the range of 24-27 tons per day (TPD) depending upon patient load. The status of HCFs operating in towns falling in catchment areas of river Sutlej is given in **Annexure 7**.
- (ii) The collection vehicles of the CBWTF operators are equipped with Global Positioning System (GPS) with access to Punjab Pollution Control Board (PPCB). The CBWTF operators are using Bar-code based software system for collection of bio-medical waste from Healthcare Facilities since 2012 and the data of collection of bio-medical waste from the healthcare facility is sent online to server within 1-2 minutes and the access of same is available with PPCB. CCTV cameras are also installed in the processing areas of all the 6 CBWTF operators with access to PPCB to monitor the working of the facility.
- (iii) The stack of the incinerator installed in all the 6 CBWTFs have been provided with Online Continuous Emission Monitoring System and the data is transferred online to PPCB and CPCB. This system helps in observing/monitoring the emissions discharged while treatment of bio-medical waste is being done.
- (iv) Since, the Bio-Medical Waste generated in the catchment area of River Sutlej is handled and managed in proper manner through the Common Bio-Medical Waste Treatment Facilities (CBWTF), as such; there is no impact of this waste on the water quality of River Sutlej. Facility wise details of area catered by the CBMWTF's is given in **Annexure-8**.

5.2 Hazardous Waste

- (i) The Government of India has framed Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 for the scientific handling of hazardous waste. The occupier of the facility is to apply for authorization for handling, generation, collection, storage, packaging, transportation, use, treatment, processing, recycling, recovery, pre-processing, co-processing, utilization, offering for sale, transfer or disposal of the waste to the Board. A passbook is issued along-with authorization to the actual user of the hazardous waste.
- (ii) As per the interim, order dated 14-10-2003 of Hon'ble Supreme Court in Writ Petition (Civil) No. 657 of 1995, regarding handling of hazardous waste and development of common treatment, storage and disposal facility, a Common Treatment, Storage and Disposal Facility (CTSDF) at Village Nimbuan, Tehsil Dera Bassi, Distt. SAS Nagar was constructed by M/s Nimbuan Green Field Punjab Limited (NGPL) and commissioned in October 2007.
- (iii) M/s Tetrattech India Limited has designed the facility for 15 years capacity considering the generation of storable quantity of hazardous waste as 36,000 MTA based on the assessment

study carried out by it. The total capacity of the facility is 5,40,000 MT. The capacity to store hazardous waste in the existing CTSDf is sufficient upto year 2030 at the present rate of generation. The vehicles used by the common facility operator for transportation of hazardous waste are equipped with GPS system.

- (iv) The status of hazardous waste generated in the industries in area of river Sutlej as on 31.3.2025 is given in **Annexure-9**.
- (v) At present, no common incinerator has been installed at CTSDf and the same is under planning. Some industries generating incinerable hazardous waste have installed captive incinerator in their premises for disposal of incinerable waste. Ten such captive incinerators are in operation for the disposal of incinerable waste. In addition to the above, the incinerable waste from the remaining industries is received by the operator of CTSDf and is incinerated at the incinerator installed by the CTSDf at its unit at Kanpur.
- (vi) Since, the Hazardous Waste generated by the industries in the catchment area of River Sutlej is handled and managed in proper manner through the Common Treatment, Storage & Disposal Facility installed at Vill. Nimbuan, Tehsil Dera Bassi, Distt. SAS Nagar, as such, there is no impact of this waste on the water quality of River Sutlej.

5.4 E-Waste

- (i) Government of India has framed E-Waste (Management & Handling) Rules, 2016 as amended on 19.05.2025. PPCB has granted NOC / 'Consent to Operate' to one dismantling facility, M/s Ramky Enviro Engineers Limited, Vill. Nimbua, Tehsil DeraBassi, Distt. SAS Nagar with capacity to handle 4 TPD of E-waste.
- (ii) PPCB has granted 'Consent to Establish' to two industries i.e. M/s Black Diamond Cements Pvt. Ltd., Tehsil Dera Bassi, district SAS Nagar and M/s Spreco Recycling, Tehsil Raikot, District Ludhiana to establish E-Waste recycling facility of capacities 30 TPD and 0.8 TPD respectively. These said industries have yet not commissioned the said facility. Two parties each in Amritsar and Jalandhar, have also been given go ahead by PPCB for setting up of the E-Waste recycling facilities. of capacity 30 TPD and M/s Spreco Recycling, Tehsil Raikot, District Ludhiana of capacity 0.8 TPD have been established. M/s Cosmos Recycling Pvt. Ltd., VPO Hambran Jagraon, Ludhiana of capacity 28.77 TPD M/s K.J Recycler, Sanjay Gandhi Nagar, Jalandhar of capacity of 1.64 TPD M/s Recycling Villa, Plot no. 127, Jashan City, Kohara-Sahnewal link road, Jandiali, Ludhiana refurbisher facility of capacity 1 TPD. Status of E-wastes Facility wise details of area catered by the E-wastes is given in **Annexure 10**.
- (iii) Although, the channelization of E-Waste has recently been started, disposal of such waste has never been noticed in the River Sutlej.

5.6 Solid Waste

- (i) The Department of Local Government (DLG) vide notification dated 09.07.2018 has notified the Punjab State Solid Waste Management Policy, 2018. In view of the experience, it has

been decided to adopt both decentralized and centralized solid waste management approach depending upon the profile of the locality.

- (ii) Further, in compliance to the orders of the Hon'ble Punjab and Haryana High Court in CWP No. 7039 of 2010, a Common Action Plan containing 10 points was prepared in 2012 for viable alternative measures for disposal of garbage till setting up of Solid Waste Management Plants. The Directorate of Local Government is the implementing agency for this Action Plan and PPCB is monitoring the status of compliance. Out of 65 Urban Local Bodies (ULBs), 04 ULBs are complying, 43 ULBs are partially complying with the Common action plan and remaining 18 ULBs are yet to comply with the same.
- (iii) The habitation areas along the banks of Budha Nallah are disposing off their solid waste into Budha Nallah due to improper collection mechanism in place by the Municipal Corporation, Ludhiana in the city. Besides, this solid waste generated by the dairy units is also disposed off in the Budha Nallah. Therefore, disposal of such solid waste in the said nallah is further degrading the quality of its water and has become a major problem for the city.
- (iv) The Ministry of Environment and Forests, GOI has notified Solid Waste Management Rules, 2016. The Board is monitoring implementation of these Rules. As per Rule 24 of the Solid Waste Management Rules, 2016, the local body shall submit its annual report to the Board on or before the 30th day of June every year. Further, the Board is required to submit the consolidated annual report to the Central Pollution Control Board and Ministry of Urban Development by the 31st day of July of each year. The same are regularly uploaded on the official website of the Board also.
- (v) The vulnerable pockets where garbage is dumped directly by people into Budha Nallah needs to be identified so that the preventive measures shall be taken to stop dumping of garbage directly into Budha Nallah.

Chapter 6 - Utilization of Treated Wastewater

6.1 The State Treated Waste Utilization Policy

- (i) The Department of Local Govt. has notified "The State Treated Waste Policy -2017" to promote the recycling and reuse of treated sewage for non-potable application and to make sewage projects economical and environmentally sustainable.
- (ii) The policy envisages to tackle the issues pertaining to the provisions of adequate wastewater collection and treatment facilities, consideration of treated effluent as resource for reuse in irrigation/industrial/other fields and thereby improvement of the socio-economic conditions in the areas to served by the proposed systems.
- (iii) The Department of Soil and Water Conservation, Punjab is executing projects for utilization of treated wastewater for irrigation of various towns/cities across the State by laying network of underground pipelines in agricultural fields.
- (iv) The project involves laying network of underground pipelines from Sewage Treatment Plants for conveyance of treated sewage for irrigation in agricultural fields.

6.2 Utilization of treated wastewater in the catchment area of Sutlej River

- (i) The Department of Soil & Water Conservation, Punjab has already commissioned irrigation projects to utilise the treated wastewater of 24 STPs (165.50 MLD) for irrigating 4044 hectares of agricultural land.
- (ii) The irrigation projects for utilizing the treated waste water of 9 STPs (176 MLD) are under progress for irrigating 4995 Ha of agriculture land. The irrigation projects for utilizing the treated wastewater of 17 STPs (923 MLD) are not feasible due to non-availability of irrigation command area as these STP's are located in urbanized area. Further, the irrigation projects for utilizing the treated waste water 32 STPs (187.5 MLD) are under planning stage and are likely to be initiated after the funds for these projects are tied up. The details of the projects already commissioned, under progress, not feasible and at planning stage are given in **Annexure-11**.
- (iii) The following issues need to be addressed for utilizing the treated waste water of STP's for irrigation purposes:
 - a) In case of STPs based on SBR technology, the discharge of treated wastewater is not continuous and for the gap period of about 45 minutes, the pump through which the treated wastewater is pumped for utilization onto land for irrigation is required to be shutdown, which discourages the farmers to utilize the treated wastewater. Therefore, there is a need to provide a storage tank of sufficient capacity for treated wastewater so that without shutting down the pumping station, the wastewater can be made available to the farmers.
 - b) The payment of electricity bill is required to be regulated by fixing the responsibility of the concerned department and funds for this purpose need to be made available with the operating agency.
 - c) The farmers need to be educated and made aware about the advantages of use of treated wastewater for irrigation purpose.

Chapter 7- Action Plan for Control of Water Pollution & Timelines

7.1 Action plan

In order to control water pollution in river Sutlej, following measures have been chalked out to stop the flow of untreated waste water or other waste directly or indirectly into river Sutlej:

- (i) Construction of New STPs in Urban Areas
 - a) Setting up of STPs by ULBs in various cities
 - b) Closure of Outlets directly discharging their waste water into Buddha Nallah, Ludhiana
- (ii) Construction of New CETP & Upgradation of Existing CETP/ETP
 - a) Setting up of CETP for electroplating units at Jalandhar
 - b) Upgradation of existing 5 MLD CETP for Tannery Units at Jalandhar
 - c) Upgradation of ETP for fish market at Ludhiana
 - d) Shifting of scattered small/ medium scale dyeing units located in non-designated areas
 - e) Shifting of scattered small/ medium scale dyeing units located in designated areas
- (iii) Management of Dairy Waste
- (iv) Setting up of Treatment facilities in Village Ponds in Rural areas
- (v) Setting up of Facilities for Reuse of Treated Wastewater
- (vi) Modernization of existing slaughter house and Carcass plant at Ludhiana
- (vii) Operation and Management Facilities
 - a) Installation of Online Continuous Effluent Monitoring System (OCEMS) for STPs
 - b) Installation of OCEMS by CETPs & ETPs
- (viii) Release of 200 cusecs of Fresh Water into Buddha Nallah

7.2 Setting up of STPs by ULBs in Various Cities and Closure of Outlets Discharging into Buddha Nallah

- (i) The total sewage generation in the catchment area of river Sutlej has been estimated as 1236 MLD with gap in sewage treatment as 33.32 MLD. The Department of Local Govt. (DLG) through Punjab Water Supply & Sewerage Board (PWSSB) has planned to set-up 16 New STPs to address the gap in sewage management.
- (ii) There are 50 Urban Local Bodies (ULBs) falling in the catchment area of River Sutlej, which are discharging their wastewater directly or indirectly into river Sutlej. 16 STPs of 72.5 MLD capacity in 15 ULBs are proposed to be installed. Out of 15 ULBs, the sewage convenience system in 3 ULBs namely Barriwala, Mallanwala & Nihal singh wala is proposed to be provided besides installation of STP. Out of 16 STPs, 11 STPs of 32.5 MLD capacity in 10 ULBs are under construction & 5 STPs of 40 MLD capacity in 5 ULBs are under various stages of planning for establishment. The details of under construction, tender & DPR stage STPs are provided at **Annexure 12 & 13**, respectively.

(Stakeholder Department – PWSSB/DLG)

(iii) Closure of Outlets directly discharging their waste water into Buddha Nallah, Ludhiana

- a) The Joint Group of Central & State Govt. Departments in their report has identified 156 outlets (domestic sewage, village ponds, dairies, storm water, CETPs, STPs) discharging their waste water into Buddha Nallah. Out of 156 outlets, 96 outlets have been identified to be discharging their effluent upstream of Buddha Nallah, 3 outlets downstream of Buddha Nallah & 57 outlets within city limits. Out of 57 outlets, 42 outlets are from dairy complexes
- b) The Municipal Corporation, Ludhiana shall map and plug all the outlets (mainly of scattered dairies, cottage industries, leachate from solid waste dump site etc.) discharging their waste water into Buddha Nallah within city limits in a time bound manner. These outlets contributing significantly to the pollution load in Buddha Nallah. Further, MC Ludhiana shall expedite the setting up of CBG plants for the management of cow dung in Ludhiana to prevent the direct discharge of cow dung into Buddha Nallah.
- c) The Municipal Corporation, Ludhiana (MCL) shall ensure that all the industrial outlets (treated, partially treated or untreated) except those allowed by the Punjab Pollution Control Board shall be plugged from municipal sewer so as to stop the mixing of industrial discharge with domestic sewage to improve upon the functioning of STPs.
- d) The Department of Rural Development & Panchayats (DRDP) shall plug all the outlets discharging untreated sewage from villages in Buddha Nallah by providing adequate treatment & reuse facilities in these villages in a time bound manner. Further, the Department Rural Development & Panchayats shall also plan for providing treatment facilities for the management of liquid waste & solid waste (cow dung) being generating from dairies located upstream of Buddha Nallah.
- e) Department of Animal Husbandry (DAH) will organize awareness camps for the scientific management and disposal of cow dung in coordination with concerned municipal corporation/council and Department of Rural Development & Panchayats.
- f) Greater Ludhiana Area Development Authority (GLADA) shall map and plug all the outlets of illegal colonies (37 No.) discharging their waste water into Buddha Nallah in a time bound manner.
- g) Punjab Pollution Control Board (PPCB) shall direct all the small & medium scale scattered textile dyeing units to install facilities for reusing their treated water are not connected to the any of the dyeing CETPs.
- h) The SPVs of 3 CETPs (15 MLD, 40 MLD & 50 MLD), presently discharging their treated waste water into Buddha Nallah will explore the possibility for reusing their treated waste water.

(Stakeholder Department – MCL/DLG, DRDP, DAH, GLADA, PPCB)

7.3 Construction of New CETPs/Upgradation of Existing CETP/ETP

(i) Installation of CETP for Electroplating Units at Jalandhar

The Special Purpose Vehicle (SPV) namely Jalandhar Effluent Treatment Society (JETS) has planned CETP of 150 KLD capacity for 254 No. electroplating industries based on zero liquid discharge at Jalandhar. The Department of Industries (DIC) has informed that the construction work of this CETP has been stopped due to the stay given by the Hon'ble High Court in CWP 1483 of 2020 titled The Jalandhar Human Welfare Society (Regd.) V/s State of Punjab and Others.

(Stakeholder Department – DIC)

(ii) Upgradation of existing 5 MLD CETP for Tannary Units at Jalandhar

This CETP set-up by the Punjab Effluent Treatment Society (PETS) is catering to 58 Tanneries of Leather Complex, Jalandhar. The DPR for its upgradation has already been approved by DPIIT, Ministry of Commerce & Industry, GOI with project cost as Rs 28.64 Cr. The tender for its upgradation has already been awarded and the work is under progress. Department of Industries & Commerce, Punjab has informed that the said CETP is likely to be upgraded by 30.06.2026.

(Stakeholder Department – DIC)

(iii) Upgradation of ETP for Fish Market at Ludhiana

The Punjab Mandi Board (PMB) shall connect all the outlets of Fish Market with the existing ETP and plan for its upgradation in a time bound manner.

(Stakeholder Department – PMB)

(iv) Shifting of scattered small/ medium scale dyeing units located in non-designated areas

All the scattered small/ medium scale dyeing units located in non-designated areas are required to be shifted to the designated industrial areas having CETPs.

(Stakeholder Department – DIC & PPCB)

(v) Shifting of scattered small/ medium scale dyeing units located in designated areas

All the scattered small scale dyeing units located in designated areas where there is no feasibility to connect with the CETPs, are also required to be shifted to some designated industrial areas having feasibility to connect with the CETPs. CETPs so as to achieve the mandate for no industrial discharge into the municipal sewer. These units have the option to adopt alternative disposal methods, such as Zero Liquid Discharge (ZLD) technology or utilizing treated effluent for plantation. They can also consider relocating to areas with alternative disposal options (excluding municipal/public sewer).

(Stakeholder Department - DIC & PPCB)

7.4 Management of Dairy Waste

- (i) For the management of dairy waste, 1 CBG plant of 300 TPD capacity is planned to be set up at Haibowal Dairy complex, Ludhiana by PEDDA for MC, Ludhiana. The MoU has been signed amongst PEDDA & HPCL Renewable and Green Energy Limited (HPRGE) and land lease agreement signed between MC, Ludhiana & PEDDA. The land has been handed over by MC, Ludhiana to HPRGE. The project is expected to be operationalized by May, 2027.
- (ii) 1 more CBG Plant of 300 TPD capacity is planned to be set up at Tajpur Dairy Complex, Ludhiana by PEDDA for MC, Ludhiana.
- (iii) 1 CBG plant of 300 TPD capacity is already under construction at Jamsheer Dairy Complex, Jalandhar.
- (iv) Department of Rural Development & Panchayats shall plan for providing treatment facilities for the management of liquid waste & solid waste (cow dung) being generating from dairies located outside MC limits.
- (v) Punjab Energy Development Agency (PEDDA) in collaboration with DRDP needs to explore of providing Biogas Plants/Bio digestors for the dairies located outside MC limits & scattered dairies for their cow dung management.
- (vi) MC Ludhiana & GLADA shall explore the possibility of either connecting the scattered dairies & gaushalas (within & outside MC limits) or transporting their cow dung with the proposed CBG plants.

(Stakeholder Department – MCL, DRDP, PEDDA)

7.5 Setting up of Treatment Facilities for sewage/sullage in Rural areas

- (i) There are 336 Villages which are discharging their waste water either directly or indirectly through various drains/nallahs/creeks into river Sutlej.
- (ii) The Department of Rural Development & Panchayats shall provide treatment facilities for villages directly/indirectly discharging their waste water into River Sutlej in a time bound manner.

(Stakeholder Department – DRDP)

7.6 Setting up of Irrigation Facilities for Reuse of treated wastewater

The Department of Soil & Water Conservation (DSWC) informed as under:

- (i) The projects for reusing the treated waste water of 9 STPs (176 MLD) for irrigation are under progress and are likely to be completed by 30.06.2026.
- (ii) The projects for reusing the treated wastewater of 17 STPs (923 MLD) for irrigation are not feasible due to non-availability of irrigation command area as these STP's are located in urbanized area.
- (iii) The projects for reusing the treated waste water 32 STPs (187.5 MLD) are under planning stage and are to be initiated after the funds for these projects are tied up.

The details of the projects already commissioned, under progress, not feasible and are at planning stage are given in **Annexure-11**.

(Stakeholder Department – DSWC)

7.7 Modernization of existing slaughter house and Carcass plant at Ludhiana

(i) Slaughter House

The slaughter house set-up by Municipal Corporation Ludhiana is required to provide alternative mode of disposal such as ZLD or irrigation in a timebound manner.

(ii) Installation of Carcass handling plant.

The carcass utilization plant installed by Municipal Corporation, Ludhiana at Village Noorpur Bet, Humbran Road, Ludhiana could not be commissioned due to public agitation. The matter is under consideration of Hon'ble NGT. The proposal to shift the plant at any other location is under consideration of Municipal Corporation.

(Stakeholder Department – MCL)

7.8 Operation and Management Facilities

(i) Installation of Online Continuous Effluent Monitoring System (OCEMS) for STPs

The Department of Local Govt. shall ensure that all the STPs are equipped with Online Continuous Effluent Monitoring Systems (OCEMS). The calibration of OCEMS shall be carried out as per prescribed protocols & connectivity shall be established with the dashboards/servers of CPCB & PPCB.

(ii) Installation of Online Continuous Effluent Monitoring System (OCEMS) by CETPs & ETPs

Punjab Pollution Control Board shall ensure that all the CETPs and individual industries having discharge 50 KLD or more have installed OCEMS (**Annexure-14**) at their outlets and their calibrations shall be carried out as per prescribed protocols from time to time. Further, the OCEMS of the CETPs and ETPs shall be connected with the servers/dashboards of CPCB & PPCB.

(Stakeholder Department – PPCB & DLG)

(iii) Operation & Maintenance (O&M) of STPs and CETPs

- a) O&M of STPs & CETPs should be entrusted to reputed companies for achievement of the prescribed discharge standards.
- b) All the STPs should have in-house laboratory facilities at each STP for maintaining record of characteristics of analysis of untreated as well as treated waste water.
- c) Sludge generated from STPs is required to be analysed for the parameters as mentioned in the Schedule 2 of MSW Rules, 2016 for disposal of the same. The operator of the STP is required to maintain database in this regard.
- d) All the STPs should have standby arrangements for smooth functioning during maintenance period and there should be standard operating procedure for the same. All the STPs should have adequate capacity of holding tank(s) or standby

arrangements for storage of untreated sewage during maintenance or shut down if any. All upcoming STPs also should have the above provisions.

- e) All STPs should have a provision of uninterrupted power supply or power backup system including standby electrical and mechanical components for ensuring proper and effective operation of the STPs.

(Stakeholder Department – PWSSB/DLG, DHUD, DWSS, DIC, PPCB)

7.9 Release of 200 cusecs of Fresh Water into Buddha Nallah.

The Department of Water Resources shall ensure consistent release of 200 cusecs of freshwater from Neelon drain into the Buddha Nallah to bring down the concentration of pollutants.

(Stakeholder Department – DWR)

Chapter 8 – Monitoring Requirements and Formats

8.1 Key components of monitoring

There are following key components of monitoring

- Monitoring of the progress of projects for setting up of New STPs/CETPs and upgradation of existing STPs/CETPs
- Monitoring of operations and management of STPs/CETPs
- Monitoring of ETPs and Industrial Effluents
- Monitoring of Quality of Water of River Sutlej
- Monitoring of adverse impact on health of the people in surrounding areas due to water pollution
- Monitoring of Awareness campaign
- Monitoring of other violations of laws/ regulations
- Monitoring of characteristics of sludge of STPs
- Monitoring of regular release of fresh water in Buddha Nallah
- Monitoring of solid waste disposal in Buddha Nallah

8.2 Monitoring of operations and management of existing STPs/CETPs/ETPs

To ensure proper functioning of the STPs/CETPs, regular availability of funds for operation and maintenance has to be ensured. All the STPs/CETPs should also have standby source of power. The O&M contracts shall clearly define the responsibilities of the Operator. Monthly reports as per **Annexure-15 & 16** will be submitted for monitoring.

8.3 Monitoring of progress of setting up of new/ upgradation STPs/CETPs/ETPs

The progress of projects for setting up of new STPs in various Urban Local Bodies, CETP by Special Purpose Vehicle and ETPs for the treatment of Dairy effluents will be monitored on regular basis. In order to ensure that all the stakeholder departments adhere to the timelines given for setting up of new STPs/CETPs/ETPs and upgradation of existing STPs/CETPs facilities, the department shall submit progress of the project on monthly basis in the proforma attached as **Annexure-17 & 18** for monitoring.

8.4 Monitoring of ETPs and Industrial Effluents

Punjab Pollution Control Board shall visit the industries located in the catchment area of River Sutlej as per protocol regarding frequency of visit to the industries to carry out monitoring of Effluent Treatment Plants & ground water and maintain proper record of all these visits. PPCB will submit report as per the proforma given in **Annexure-19**.

8.5 Monitoring of Water Quality of River Sutlej

The Punjab Pollution Control Board shall continue to monitor the quality of water of River Sutlej at 16 locations under National Water Monitoring Programme and shall submit report on monthly basis in the proforma as per **Annexure-20**.

8.6 Monitoring of adverse impact on Health of the people in surrounding areas

The Department of Health and Family Welfare shall organize / conduct the health check up camps of the people in the catchment area of River Sutlej and shall submit the monthly report in proforma as per **Annexure-21**.

8.7 Monitoring of Awareness campaign

The PPCB will organize awareness programme in partnership with the Department of Health & Family Welfare and other stakeholders in the habitation area falling in the catchment area of River Sutlej to educate them about the harmful effects of water pollution. The PPCB shall submit monthly report in the proforma as per **Annexure-22**.

8.8 Monitoring of characteristics of sludge of STPs

The PWSSB/PPCB and the operating agency shall get the sample of sludge of STPs analysed for the parameters mentioned in schedule 2 of MSW Rules, 2016 to find out its characteristics, atleast once in six months so that its usage/ disposal route may be adopted accordingly.

8.9 Monitoring of release of fresh water in Buddha Nallah

The Department of Water Resources shall ensure consistent release of 200 cusecs of freshwater from Neelon drain into the Buddha Nallah to bring down the concentration of pollutants.

8.10 Monitoring of solid waste disposal in Buddha Nallah

The disposal of solid waste into Budha Nallah by the habitation areas located along its banks due to improper collection mechanism and by the dairy units would be monitored on regular basis.

8.11 Monitoring of out falls into Budha Nallah & Kala Sanghian drain

The wastewater of many residential colonies/ dairies which are not connected to STP are being discharged into Budha Nallah & Kala Sanghian drain through storm water drain/ sewerage system without treatment thereby affecting the quality of river water. The outfalls into these drains needs to be monitored on regular basis for providing adequate treatment facilities by setting up of STPs/ ETPs.

Chapter 9 - Governance and Supervision

9.1 Four Tier Monitoring

- (i) Monitoring shall be done by the concerned Departments/Agencies, which are executing or responsible for particular activities and it will be their primary responsibility to ensure compliance of the Action Plan.
- (ii) State is already implementing the 4 -Tier Governance Mechanism to review the progress of various activities (monitoring of existing STPs, setting up of new STPs, reuse of treated wastewater etc.) of Action Plans to control the pollution in rivers including Sutlej with details of Committees as under:
 - **District Environment Committees (DEC)** - Department of Science Technology & Environment, Government of Punjab vide notification dated 31.10.2019 has constituted DEC in compliance of NGT orders dated 26.09.2019 in O.A. No. 360/2018 under the chairmanship of Deputy Commissioner of concerned District and members as ADC (Development), SSP Police, EO- Municipal Corporation, Chief Administrator, Urban Development Authority, RO- Punjab Pollution Control Board (PPCB), SE-PWD, Chief Agriculture Officer, Chief Surgeon, District, Development & Panchayat Officer, General Manager, District Industries Centre, Secretary, Regional Transport Authority.
 - **River Rejuvenation Committee (RRC)** - Department of Science Technology & Environment, Government of Punjab vide order dated 19.11.2018 has constituted RRC in view of NGT orders dated 20.09.2018 in O.A. No. 673/2018 consisting of Director Environment, Director, Urban Development, Director, Industries and Member Secretary, Punjab Pollution Control Board as members. The RRC will function under the over all supervision & coordination of Principal Secretary to Government of Punjab, Department of Science, Technology & Environment.
 - **State Level Task Force also called State Apex Committee (SAC)**- Department of Science Technology & Environment, Government of Punjab vide order dated 14.11.2018 has constituted SAC in view of NGT orders dated 07.08.2018 in O.A. No. 138-139/2016 consisting of Chief Secretary, Punjab, Administrative Secretary, Environment, Administrative Secretary, Urban Local Bodies, Administrative Secretary, Housing and Urban Development, Member Secretary, Punjab Pollution Control Board.
 - **Monitoring by Divisional Commissioners** - The State Govt. has issued directions to all the Divisional Commissioners on 17.01.2023 to monitor the District Environment Plans (DEPs) in their respective Districts on behalf of Chief Secretary, Punjab from 1.01.2023 onwards in compliance of NGT order dated 18.08.2022 in O.A. No. 360/2018. The Divisional Commissioners are regularly monitoring the DEPs & submitting their bi-monthly reports for further review in the meeting of State Apex Committee.
- (iii) Department of Science, Technology and Environment through Directorate of Environment & Climate Change (DECC) is responsible for coordination and monitoring of the various Environmental Action Plans including Action Plan for Clean River Sutlej. DECC is collecting, collating and analysing the data from all the concerned agencies and is escalating the issues and challenges to the appropriate level for expeditious resolution of the same.

9.2 River Rejuvenation Committee (RRC)

- The mandate of the RRC as per NGT orders dated 20.09.18 is as under:
 - (a) It shall prepare action plans to restore the polluted river stretches to the prescribed standards in the State.
 - (b) It shall have a website inviting public participation from educational institutions, religious institutions and commercial establishments. Achievement & failures may also be published on such website. The Committee may consider suitably rewarding those contributing significantly to the success of the project.
 - (c) It shall have the authority to recover the cost of rejuvenation in Polluter Pays Principle from those who may be responsible for the pollution, to the extent found necessary. In this regard, principle laid down by the NGT in order dated 13.07.2017 in O.A. No. 200/2014, M.C. Mehta V/s. UoI will apply. Voluntary donations, CSR contribution, voluntary services and private participation may be considered in consultation with the RRC.

9.3 State Level Task Force also called State Apex Committee

- The mandate of this task force as per order dated 14.11.2018 issued by the Govt. of Punjab, Deptt. of Science, Technology & Environment is as under:
 - (a) It shall finalize the Action Plan with firm timelines and review the same.
 - (b) It shall submit quarterly report on action taken during the quarter to the Central Pollution Control Board.
 - (c) It shall also ensure that the quarterly Action Taken Reports are uploaded on the website of Punjab Pollution Control Board.
 - (d) It shall Co-ordinate with the Executing Committee, appointed by NGT
 - (e) The State Level Task Force will accordingly hold regular meetings to review

9.4 District Environment Committees

- The mandate of this task force as per NGT order dated 18.08.2022 in O.A. No. 360/2018. issued is as under:
 - (a) To prepare District Environment Plan and revision from time to time w.r.t various areas of environment & in particular following specific thematic areas:
 - i. Compliance to Solid Waste Rules including Legacy Waste
 - ii. Compliance to Bio Medical Waste Rules
 - iii. Compliance to Construction & Demolition Waste
 - iv. Compliance to E-Waste Rules
 - v. Four Water Polluted Stretches in the State (Roopnagar to Harike Bridge in River Sutlej, Along Mukerian & Sultanpur Lodhi to confluence of Beas in River Beas and Mubarakpur to Sardulgar in River Ghaggar)
 - vi. Nine non-attainment cities namely Patiala, Dera Bassi, Naya Nangal, Dera Baba Nanak, Mandi Gobindgarh, Khanna, Ludhiana, Jalandhar and Amritsar
 - vii. Industrial Clusters namely Mandi Gobindgarh, Ludhiana
 - viii. Status of STPs and Re-use of Treated Water
 - ix. Status of CETPs/ ETPs including performance
 - x. Ground Water extraction/ contamination and recharge

- xi. Air pollution including noise pollution
 - xii. Illegal sand mining
 - xiii. Rejuvenation of Water Bodies
 - xiv. Crop Residue Burning
- (b) To prepare District Plans for Climate Change and to revise the same from time to time.
 - (c) To review the progress of District Environment Plans and other plans.
 - (d) To identify all persons responsible for violation of law and norms relating to water pollution, air pollution, noise pollution and waste management
 - (e) To review action by the competent authority w.r.t. civil and criminal action against the violators as well as those who fail to perform their duties in this regard.
 - (f) To involve civil society organizations and public participation for organizing awareness programs.
 - (g) To ensure periodic sampling of river water as well as ground water to check water quality
 - (h) Any other function assigned to the Committee by the State Government on its own or in pursuance of directions of the Hon'ble Court or Hon'ble NGT from time to time

Chapter 10 – Challenges in Implementation of Action Plan

10.1 Identification of Major Challenges in the Action Plan

The Action Plan to clean Sutlej and restore the quality of water to the prescribed standards is a complex multi sectoral and multi-agency action plan. Successful implementation would face many challenges. Following major risks have been identified

- (i) Accuracy and completeness of Baseline Data
- (ii) Accuracy and completeness of Project timelines
- (iii) Financial closure and timely releases of funds
- (iv) Discharge from unapproved habitation areas
- (v) Tracking the Progress and program management
- (vi) Resolution of Administrative and Technical Issues
- (vii) Mixing of industrial effluent with domestic wastewater

10.2 Mitigation Plan for identified Challenges

It is important to devise strategies and plans to mitigate the identified challenges. Action plan will remain on paper if the bottlenecks and the risks are not dealt satisfactorily. Mitigation plan for each of the identified challenges has been prepared in the following paras.

10.3 Accuracy and completeness of Baseline Data

Due to paucity of time, the information about the sources of pollution, current treatment facilities, quantity and quality of discharges etc. could not be properly validated and there could be gaps in the same, which may lead to substantial alterations in the plans. In order to ensure accuracy and completeness of baseline data, another round of validation of the same would be got done through the respective Administrative Departments and Action plan updated accordingly. This will be completed in 30 days.

10.4 Accuracy and completeness of Project timelines

There could be gaps in the information about the project timelines. All the Stakeholder Departments would be asked to validate the project timelines carefully after taking into account all the relevant factors.

10.5 Discharge from unapproved habitation areas

There are certain unapproved colonies or villages, which have come under municipal limit, which are currently not covered in the plans but are discharging their untreated sewage directly or indirectly into river Sutlej. The concerned authorities for urban and rural areas will be asked to identify such localities and plan for their connectivity with the main sewer or development of the sewer system shall be worked out.

10.6 Financial closure and timely releases of funds

Availability of funds for completing the projects on time is a major challenge. Some of the projects have still not achieved financial closure. It has also been observed that the release of funds is often not regular even though the project had appropriate financial approval. In order to overcome these challenges, the concerned stakeholder department shall make efforts for timely release of funds by the State Govt./Govt. of India.

In case of operation and maintenance, seeking firm commitment of ULBs/ Department of Local Government to treat this as committed expenditure according to highest priority and release the funds regularly. Further, arrangement may be worked out with the Administrative Department and Department of Finance that in case of default of ULB to pay to the operator, funds will be deducted from the grant to be released to ULB and paid directly to the Operator.

10.7 Tracking the Progress and program management

The action plan for clean Sutlej is a complex, multi department and multi-agency programme. In order to mitigate the challenge, the concerned stakeholder departments may set-up a dedicated team to collate data, analyse the same, prepare status updates, escalate issues and assist various committees in review and issue resolution.

10.8 Resolution of Administrative and Technical Issues

Some of the issues such as acquisition of land can hold up the progress of the implementation of the Action Plan. Such issues need to be identified by the concerned stakeholder department and escalate to the appropriate level. The three-tier monitoring and review system will help in resolving the issues.

10.9 STPs under one Department

Presently, STPs are under the control of the different organisations and different organisations are planning in their own way and there is no proper co-ordination. All STPs should be under one authority so that it becomes easy for planning, commissioning and ensuring proper operation and maintenance of the existing or upcoming STPs.

10.10 Mixing of industrial effluent with domestic wastewater

- (i) Industrial effluents of the cities or towns should not be allowed to mix up with the domestic sewage.
- (ii) A number of scattered industries (running from households) are discharging their effluent directly into Municipal Sewer. A foolproof mechanism needs to be formulated for tapping the effluent of these industries.

Annexure 1 - Comparative analysis results of Surface water monitoring under NWMP for Dec, 2018 to Dec, 2024

A. Parameter wise

Sr. No.	Sampling Location	pH		DO (mg/l)		BOD (mg/l)		Cond (µs/cm)		T. Coli (MPN/100 ml)		DBU Class	
		2018	2024	2018	2024	2018	2024	2018	2024	2018	2024	2018	2024
1	U/S Nangal	7.66	7.1	8.6	7.2	<1	BDL	215	305	170	70	B	B
2	D/S NFL	7.76	7.2	8.4	7.4	<1	BDL	265	324	210	46	B	A
3	100m D/S PACL	7.81	7.2	8.3	7.3	<1	BDL	262	321	210	49	B	A
4	D/S Nangal	7.98	7.4	8.4	7.4	<1	BDL	234	320	150	49	B	A
5	Kiratpur Sahib	7.86	7.5	8.1	8.9	<1	BDL	246	302	940	110	C	B
6	Ropar Headworks	7.13	7.6	7.9	8.3	<1	BDL	253	341	1400	220	C	B
7	D/S Rishabh Mill	7.86	7.6	7.3	8.7	1.6	BDL	460	334	2100	210	C	B
8	U/S Budha Darya	7.14	7.6	7	7.2	1.4	1.3	436	356	3200	430	C	B
9	100m D/S Budha Darya	7.07	7.2	3.6	3.8	26	19	723	697	7,90,000	9,40,000	E	E
10	Boat Bridge	7.03	7.3	5.2	8.1	9	5.2	542	544	94,000	21,000	D	D
11	D/S East Bein	7.7	7.2	3.8	5.1	10.2	6.8	610	621	35,000	63,000	E	D
12	Harike	8.1	7.5	6.2	8.2	4.2	1.2	306	272	14,000	1700	D	C
13	Harike Lake (D/S Canal)	7.9	8.0	7.5	8.2	1.8	1.6	234	244	3500	3300	C	C
14	D/S Harike Lake	7.7	7.1	7.4	8.2	2	1.7	242	240	3300	3400	C	C
15	U/S Hussainiwal	7.2	7.5	6.9	8.2	1	BDL	268	281	2200	490	C	C
16	D/S Hussainiwal	7.41	7.5	7	8.2	1.1	BDL	275	281	2100	490	C	C

B. Class wise

Sr. No.	Sampling Location	Dec-18	Dec-19	Dec-20	Dec-21	Dec-22	Dec-23	Dec-24
1	Satluj at U/S Nangal	B	B	B	B	B	B	B
2	Satluj at D/S NFL	B	B	B	B	B	B	A
3	Satluj at 100m D/S PACL Nangal	B	B	B	B	B	B	A
4	Satluj at D/S Nangal	B	B	B	B	B	B	A
5	Satluj at Kiratpur Sahib	C	C	B	C	B	B	B
6	Satluj at Ropar Head-Works	C	C	C	C	C	C	B
7	Satluj at D/S of Rishab-Paper Mills	C	C	C	C	C	C	B
8	Satluj at U/S Buddha Dariya	C	C	D	C	C	C	B
9	Satluj at 100 m D/S Buddha Dariya confluence	E	E	E	E	E	E	E
10	Satluj at Boat Bridge, Dharamkot Nakodar Road	D	E	E	D	D	D	D
11	Satluj at D/S East Bein	E	E	E	E	D	D	D
12	Satluj at Harike	D	C	C	C	C	C	C
13	Harike Lake D/S from canal (Ferozpur feeder)	C	C	C	B	C	C	C
14	Satluj D/S Harike lake	C	C	C	C	C	C	C
15	Satluj at U/S Hussainiwala H/W Ferozpur	C	B	C	C	C	C	C
16	Satluj at D/S Hussainiwala H/W Ferozpur	C	B	C	C	C	C	C

Note. 1. BDL means Below Method Detection Limit

2. WQI means Water Quality Index (S means Satisfactory, N means not Satisfactory).

3. DBU means Designated Best Use (Class-A, B, C, D& E)

Annexure 2 - Data of Surface Water Monitoring under NWMP (Average values)

Year	Location	pH	DO mg/l	COD mg/l	BOD mg/l	Total Coliform MPN/100ml	Fecal Coliform MPN/100ml	Class as per DBU
2021-2022	River Sutlej at U/S Nangal	8	7.7	0	0	132	39	B
2022-2023		7.9	8.2	0	0	190	65	B
2023-2024		7.8	7.7	0	0	90	27	B
2024-2025		7.8	8	0	0	81	27	B
2021-2022	Sutlej at 1 km D/S of Shree Rishab Papers	7.9	8.1	0	0	2193	887	C
2022-2023		7.9	8.1	0	0	1547	610	C
2023-2024		7.8	8	1.2	0.2	871	268	C
2024-2025		7.7	8.1	4.8	0.4	736	205	C
2021-2022	Sutlej at U/S Budha Darya (Upper)	7.7	6.3	10.8	1.5	3558	1468	C
2022-2023		7.9	7	5.7	1	2592	992	C
2023-2024		7.8	7.4	9	1.3	1054	378	C
2024-2025		7.8	7.4	13.8	1.6	1405	436	C
2021-2022	Sutlej at 100m D/S Budha Darya Confl., Ludhiana	7.3	1.5	107	24.5	4291667	1950833	E
2022-2023		7.4	1.6	140.4	37.3	2295000	880833	E
2023-2024		7.5	1.3	155.8	39.7	1898333	631583	E
2024-2025		7.5	1.9	120.4	30.6	1157500	297250	E
2021-2022	Sutlej at Boat	7.3	3.6	48.9	8.7	483333	168583	E
2022-2023	Bridge Dharamkot Nakodar Road, Jalandhar	7.6	3.6	60.8	14.5	353333	142833	E

Year	Location	pH	DO mg/l	COD mg/l	BOD mg/l	Total Coliform MPN/10 0ml	Fecal Coliform MPN/100ml	Class as per DBU
2023-2024		7.5	4	54.6	12.4	352417	140492	D
2024-2025		7.5	4.5	53.4	10.3	77083	26658	D
2021-2022	Sutlej at D/S East Bein	7.3	2.8	57.7	10.7	676667	288333	E
2022-2023		7.6	3.1	61.5	13.4	512000	190083	E
2023-2024		7.5	3.6	55.8	13.2	447417	189658	E
2024-2025		7.4	3.6	64.2	13.7	117000	44150	E
2021-2022	Sutlej at Bridge Harike	7.6	6.1	16.4	2.5	4475	1667	C
2022-2023		7.7	6.4	14.5	2.3	4183	1505	C
2023-2024		7.7	6.4	18.8	2.4	3875	1468	C
2024-2025		7.7	7.2	19.9	2.3	3017	1138	C

Annexure 3 - List of 30 Major Drains directly discharging into River Sutlej

Sr. No.	Name of the drain	Point of origin	Approx length (in Km)	Location at which it meets river Sutlej	Approx. Carrying Capacity (MLD)
1.	Adhera Choe/Siswan nadi/Dulchi nadi	Siswan Dam	38.11	village beli kalan, Sri Chamkaur Sahib	200570
2.	Hussainpura Drain	Village Ladai and Hussainpur	3.04	village Katli, through ropar wet land	244.5
3.	Phool Drain	village phool	3.06	village Bara Phool	244.5
4.	Budh ki nadi	Himachal	36.58	Village Nanowal	129637
5.	Sarsa Nadi	Himachal Pradesh	6.10	Village Avaan Kot	
6.	Ladl Choe	Himachal Pradesh	3.04	Village Katli	537.90
7.	Main Seepage	Village Lodhipur	8.15	Through Nakia Khadd near Gurudwara Patalpuri Sahib	579.46
8.	Kiratpur Choe	From hills near Kiratpur Sahib	1.0	Through Nakia Khadd near Gurudwara Patalpuri Sahib	36.68
9.	Charan Ganga	From Nallah of Sri Anandpur Sahib	3.5	Near Village Lodhipur	22
10.	M.C.M. Drain (Lower)	Near Chamkaur Sahib	21.65	Mattewara Forest	909.876
11.	Budha Nallah	Near Machhiwara	40	Near Vill. Walipur	2768
12.	Jassowal Extension Drain	Khadoor	1.07	Near Vill. Sherewal	20730.754
13.	Kishanpura outfall drain	Near Village Kamaal ke, Tehsil Dharamkot, Distt. Moga	11.28	Near Satluj, Village Sherewala, Tehsil Dharamkot, Distt. Moga	638.55
14.	Makhu drain	Near Village Nangal / Jogewala, Distt. Ferozepur	17.98	Near Village Dinne ke, downstream of Harike Head Works, Tehsil Zira, Distt. Ferozepur.	320.5
15.	Sukkar Nala Drain	Village Badowal, Distt. Moga	99.10	Near Village Masteke, Tehsil & Distt. Ferozepur	2083.76
16.	Phidda drain	Near Village Burj Duna, Distt. Moga	68.29	Near Village Langeana, close to international boundry, Tehsil & Distt. Ferozepur.	1663.67
17.	Luthar Drain	Village Luthar, Tehsil & Distt. Ferozepur	5.18	Near Village Waghe Wala	280.6
18.	Mamdot Drain	Village Changa Makhana, Tehsil & Distt. Ferozepur	11.89	Near Village Mamdot Hithar	409.92
19.	Phidda outfall drain	Near Village Sehjadi, Tehsil & Distt. Ferozepur.	52.59	Near Village Gajni Wala, Tehsil Guru Har Sahai, Distt. Ferozepur.	12428.6

Sr. No.	Name of the drain	Point of origin	Approx length (in Km)	Location at which it meets river Sutlej	Approx. Carrying Capacity (MLD)
20.	Jiwan Arain Drain	Village Mohan Ke Uttar, Tehsil Guru Har Sahai, Distt. Ferozpur	12.95	Near Village Issa Panj Grain, Tehsil Guru Har Sahai, Distt. Ferozpur	
21.	Jalalabad mauzzam drain	Near Village Chak Janisar, Tehsil Jalalabad, Distt. Fazilka	19	This drain fall into creek of river Satluj, at Village Walle Shah Uttar / Hasta Kalan, Tehsil & Distt. Fazilka.	--
22.	Salemshah Drain	Near Village Theh Qulandar, Tehsil & Distt. Fazilka	11.7	This drain falls into creek of river Satluj at village Muhar Jamsher, Tehsil & Distt. Fazilka	--
23.	Fazilka Drain	Near to Fazilka town	5.3	Actual meeting poing with Sutlej in is Pakistan terriatory 2 km from international boundary near to sulemanke headworks	--
24.	Rahon Drain	Usmanpur to Kazampur Road	8.47	Near Vill. Saidpur Kalan	5.62
25.	Balachaur Choe	South side of the road balachaur to ropar road	7.1	Balachaur discharge into Balachaur choe and does not reach to River Sutlej	450
26.	Lasara Kadiana	Village Pandrawal	10.67	Near Darbar Baba Jhandipir	-
27.	Theing Drain	Village Theing, Phillaur	5.4	Near Crossing Dhusi Bandh at Phillaur	03
28.	East Bein	Nawan Shahr	214.62	Near Mandala Pind	5000
29.	Patti Nalah	Village Rampur, District Gurdaspur	103.4	Village Kot Budha	625
30.	Kasur Nalah	Village Tibbar, District Gurdaspur	157.276	Village Kalas	1125

Annexure 4 – Subdrains leading to Main drains directly discharging into River Sutlej

Sr. No.	Name of the Sub drain	Point of origin	Approx Length (in Km)	Location at which the sub drain meets main drain	Approx. Carrying Capacity (MLD)
	M.C.M. Drain (lower)				
1	M.C.M. Drain	Chamkaur Sahib	23.78	Near Panjgaraiyan	1891.846
2	Powat Drain	Near Village Powat	1.37	Near Powat	4.972
3	Old Machhiwara Drain	Near Machhiwara	5.12	Near Ropar Road, Machhiwara City	156.618
4	Burj Drain	Burj	6.10	Lakhowal Khurd	315.722
	Buddha Nallah				
5	Kum Link Drain	Near Panjgaraiyan	14.29	Koom Kalan	933.45
6	Rakh Drain	near kum kalan	11.12	Village Koom	716.88
7	Rajgarh Drain	Village Rajgarh	3.65	Village Bhaman Kalan	363.42
8	Rakh feeder	Near	1.52	Marewal	154.33
9	Neelon Drain	Neelon Khurd	12.92	Near village Kum	1195.766
10	Dhande Drain	Near Neelon	4.27	Near village Kum on Ropar, Rahon Road	9.944
11	Dhande L/Drain	Near Neelon	1.37	Near village Kum on Ropar, Rahon Road	-
12	Neelon Feeder	Near Neelon	1.52	Near Neelon	4.972
13	Koom Drain	Near Koom	4.08	Near village Kum	295.834
14	Sherian 15Drain	Near Neelon	4.42	Near Village Kum Kalan	94.468
15	Koom Feeder Drain	Near Kum Khurd	1.52	NearKum Kalan	79.552
16	Jamalpur Drain	Jamalpur awana	3.66	Ludhiana	49.72
17	Barewal Drain	Near Barewal	2.90	Near Barewal	62.15
18	Birmi Drain	Near Birmi	4.5	Bardar Road, Kurali	89.496
19	Buddha Nallah (lower)	Near Jamalpur	32.62	Near Walipur	626.472
20	Porain Drain	Near Walipur	4.73	Near Walipur	310.75
21	Porain Link Drain	Near Walipur	3.96	Near Walipur	218.768
22	Bhiaini Arayian Drain	Near Arayian	2.38	Near Arayian	154.132
23	Jassowal Drain	Chhokran	55.4	Hayatwala	11823.416
24	Sidhwan Bet Drain	Baraich	24.45	Malsian Bhaikhe	591.668
25	Swaddi Drain	Swaddi Kalan	9.45	Chimara	2120.558
26	Lalton Pamal Drain	Baddowal	14.27	Raqba	867.614
27	Jassowal Extension Drain	Bliah	8.38	Mohi	1362.328
	Kishanpura Outfall Drain				
28	Kishanpura Drain	Near village Kishanpura Kalan, Tehsil Dharamkot, District Moga	9.1	Near village Ferozewala Bada, Tehsil Dharamkot	
	Sukkarnala Drain				
29	Zira Link Drain		15.2	Into Sukkarnala drain at Village Alipur.	
30	Sarhali Drain	Near Village Fatehgarh Sabrawan	19.6	Into Sukkarnala drain at town Mallanwala.	
	Phidda Drain				
31	Ferozeshah Drain	Near Village Ratol Rohi, Tehsil Zira, Distt. Ferozepur	19.5	Village Bhamba Landa, Tehsil & Distt. Ferozepur.	-

Sr. No.	Name of the Sub drain	Point of origin	Approx Length (in Km)	Location at which the sub drain meets main drain	Approx. Carrying Capacity (MLD)
32	Talwandi Bhai Drain	Vill. Kaliewala, Tehsil & Distt. Moga	12.4	vill. Haraj, Tehsil & Distt. Ferozpur	-
33	Daulatpura drain	Vill. Daulatpura, Tehsil & Distt. Moga	11.6	Into Talwandibhai Drain at vill. Mahesari sandhwan, Tehsil & Distt. Moga.	-
34	Moga Drain	Near Jagraon town	48.5	Village Chota Ghar, Tehsil Baghapurana Distt. Moga.	-
35	Ajitwal Drain	Near Jagraon town	21.3	Into Moga drain near village Mehna, Tehsil & District Moga.	
36	Dagru Drain	Near village Khosa Kotla, Tehsil & District Moga	14.1	Near Village Phidda, Tehsil & District Ferozepur	
37	Buttar Drain	From Pond of village Buttar, Tehsil Nihal Singh Wala, District Moga	33.2	At Village Chota Ghar, Tehsil Baghapurana Distt. Moga.	
38	Attari Drain	Near vill attari		Near Village Phidda.	590.4
Jalalabad Mauzzam Drain					
39	Jalalabad main drain	Near Village Mare Khurd, Tehsil Guruharsahai, Distt. Ferozepur	39	Village Saide ke uttar, Tehsil Jalalabad, Distt. Fazilka.	2006.55
40	Barkat Wah Drain	Near Village Saido ke, Tehsil Guruharsahai Distt. Ferozepur.	31.6	Into Jalalabad main drain at Village Chak Sontaria, Tehsil Jalalabad, Distt. Fazilka.	921.2
41	Ladhuka drain	Near Village chack Sona Sandhar, Tehsil Jalalabad & Distt. Fazilka.	11	Into Jalalabad main drain at Village Chak Khunde, Tehsil Jalalabad, Distt. Fazilka.	774.2
42	Tarobari drain	Near Village Nurpur Kirpal ke, Tehsil & Distt. Muktsar.	18.4	Into Jalalabad main drain at Village Chak Hamid, Tehsil Jalalabad, Distt. Fazilka.	2557.8
43	Langeana drain	Near Village Nathoke, Near to Channu wala Head Works of Abohar Branch, Tehsil Baghapurana Distt. Moga.	45.3	Into Langeana drain at Village Nurpur Kirpal ke, Tehsil & Distt. Muktsar, and combined drain is named as Tarobari drain.	1773.8
44	Langeana drain - 2	Near Village Nathoke, Near to Channu wala Head Works of Abohar Branch, Tehsil Baghapurana Distt. Moga.	12.3	Into Langeana Drain at village Demru Kalan, Tehsil Baghapurana.	997.15
45	Kaleka drain	Near Village Kaleka, Tehsil Baghapurana, Distt. Moga	6.4	Into Langeana drain at Village Kotla Mehar Singh, Tehsil Baghapurana, Distt. Moga.	3600

Sr. No.	Name of the Sub drain	Point of origin	Approx Length (in Km)	Location at which the sub drain meets main drain	Approx. Carrying Capacity (MLD)
46	Gholia Drain	Near Village Gholia, Tehsil Baghapurana, District Moga	5.8	Into Langeana - 2 drain at Village Kotla Mehar Singh, Tehsil Baghapurana, Distt. Moga.	510
47	Deviwala drain	Near Village Deviwala, Tehsil Kotkapura Distt. Faridkot	9.6	Into Langeana drain at Village Nangal, Tehsil & Distt. Faridkot.	12369
48	Golewala drain	Near Village Sappanwali, Tehsil & Distt. Ferozepur	42.1	Into Langeana drain at Village Nurpur Kirpal ke, Tehsil & Distt. Muktsar and combined drain is named as Tarobari drain.	1000
49	Mudki drain	Near town Mudki, Tehsil & Distt. Ferozepur.	31.5	Into Golewala drain at Village Shivpura, Tehsil & Distt. Muktsar.	1000
50	Pacca diversion drain	Near Village Mahla Kalan, Tehsil Baghapurana, Distt. Moga	35	Into Langeana drain at Village Landa Roda, Tehsil & Distt. Muktsar.	12000
51	Mahla Drain	From Village Pond of village Mahla Khurd	7.6	Into Pacca Diversion Drain at village Jandwala, Tehsil & District Ferozepur.	505
52	Chandbhan Diversion drain	From vill. Chandbhan, Tehsil Gangsar Jaito Distt. Faridkot	28	Vill. Chak suhelawala, Tehsil Jalalabad Distt. Fazilka	17084.94 6
53	Bhullar Link Drain	From Vill. Bhullar Tehsil & Distt. Sh. Mukatsar Sahib	5.11	Into Chandbhan Diversion drain near vill. Sotha, Tehsil & Distt. Sh. Mukatsar Sahib.	1100
54	Bassian Drain	From Vill. Bassian, Near Jagraon Distt Ludhiana	29.4	Into Chandbhan Diversion drain near vill. Krishangarh, Distt. Moga.	8569
55	Badhni Drain	Start from near abohar branch near Golian Kalan		Into Bassian drain near Village Minian	3000
56	Smadh Bhai Drain	Near Village Manooke Gill, Tehsil Nihal Singh Wala, District Moga	19.0	Into Chandbhan Diversion Drain at village Chandbhan, Tehsil Jaito, District Faridkot	728
57	Mari Drain	Near village Mari Mustfa, Tehsil Baghapurana, District Moga	12.8	Into Smadh Bhai Drain, Near Village Kothe Santa Singh Wala.	1500
58	Bura Gujjar drain	From Vill. Bura Gujjar, Tehsil & distt. Mukatsar Sahib	19.21	Into Jalalabad Mauzzam drain at vill. Chak suhelawala, Tehsil Jalalabad Distt. Fazilka	-
59	Akal garh Link Drain	From Vill. Kotali Dewan, Tehsil & Distt. Sh. Mukatsar Sahib	5.10	Into Bura Gujjar drain at vill. Badhai, Tehsil & Distt. Sh. Mukatsar Sahib	-
Fazilka Drain					
60	Sabuana Drain	From Vill. Sabuana, Tehsil & distt. Fazilka	7.1	Near vill. Karian, Tehsil & Distt. Fazilka.	-

Sr. No.	Name of the Sub drain	Point of origin	Approx Length (in Km)	Location at which the sub drain meets main drain	Approx. Carrying Capacity (MLD)
61	Abhul Khurana out fall Drain	Uperscale of Bikaner kanal near Vill. Daneala Tehsil Abhor, Distt. Fazilka.	13.8	Into Sabuana Drain Near vill. Sabuana, Tehsil & Distt. Fazilka.	-
62	Abhul Khurana Drain	From Vill. Abhul Khurana, Tehsil- Malout, Distt. Sh. Mukatsar Sahib	66.9	Into Abhul Khurana out fall Drain Near vill. Danewala, Tehsil Abhor & Distt. Fazilka.	-
63	Wahab Wala Drain	From Vill. Raike Kalan, Tehsil & Distt. Bathinda.	54.27	Into Abhul Khurana Drain Near vill. Wahab Wala, Tehsil Abhor & Distt. Fazilka.	-
64	Malout Drain	From Vill. Ghumhiar khera, tehsil Malout, Distt. Sh. Mukatsar Sahib	23.6	Into Abhul Khurana Drain Near vill. Bhadur Khera, Tehsil Abhor & Distt. Fazilka.	-
65	Aspal Drain	Vill. Karniwala, Tehsil Malout, Distt. Sh. Mukatsar Sahib	37.33	Into Khuikhera drain near vill. Khuikhera.	578
66	Bam Drain	Vill. Bam, Tehsil Malout, Distt. Sh. Mukatsar Sahib	20.28	Into Aspal drain near vill. Dharingwala, Distt. Fazilka.	149
67	Mehraj Link Drain	Near Vill. Lakhmirwala, Distt. Sh. Mukatsar Sahib	19.79	Into Aspal drain near vill. Gaddandob, Distt. Fazilka.	222
East Bein					
68	Kala Singhia Drain	Near vill Raowali	45.58	At Dhadha Lehna	672.8
69	City Outfall Drain	Near Urban Estate, Jalandhar	10.06	Village Pondari Rajputan	200
70	Taragarh Choe	Adampur	16.76	Bohani	3204.71
71	Jhandu Singhia Drain	Kishangarh	17.8	Nangal Fateh Khan	885.66
72	Lessriwal Drain	Dholike	11.70	Kapur Pind	2035.55
73	Alawalpur Drain	Alwalpur	4.6	Lessriwal	282.5
74	Chomman Drain	Chommon	3.0	Satowali	1
75	Nasrula Choe	starts in hoshiarpur	15.24	Dug	
76	Phagwara Sullage Drain	Plahi Gate Phagwara	14	Kukkar Pind	50
76	Jandiala Drain	Rurka Kalan	17.68	Chananpur	5
77	Kail Nallah	Behram	22.85	Madhopur	732.5
78	Khalwara Bahua	Bishanpur	6.24	Dhak Khalwara	1
79	Langroya Drain	Langroya	5.85	Near Gujarpur Kalan	3.75
80	Bangi Gopalpur Drain	Kangraur	14.63	Near Goplapur	8.125
81	Mehlanwali Choe	Vil Chaunni Kalan	36		73.5
82	Chounni Choe	Vill Chak Sadhu	10		24.5
83	Changgran Choe	Vill Mal Mazara	09		19.6
84	Rajni Devi Choe	Vill cheta	36		49.0

Annexure 5 -List of Urban Towns discharging directly / indirectly into River Sutlej with STPs completed

Sr. No.	ULB	District	Name of STP	Deptt.	Capacity (MLD)	Capacity utilized (MLD)	Tech	Disposal
1.	Ludhiana	Ludhiana	Bhattian-I	DLG	111	100	UASB	Buddha Nallah
2.	Ludhiana	Ludhiana	Bhattian-II	DLG	50	45	SBR	
3.	Ludhiana	Ludhiana	Balloke-I	DLG	152	135	UASB	
4.	Ludhiana	Ludhiana	Balloke-II	DLG	105	95	SBR	
5.	Ludhiana	Ludhiana	Jamalpur	DLG	225	200	SBR	
6.	Ludhiana	Ludhiana	Balloke	DLG	60	50	SBR	
7.	Machhiwara	Ludhiana	Machhiwara	DLG	4	2	SBR	Buddha Nallah
8.	Sahnewal	Ludhiana	Sahnewal	DLG	7	5	SBR	Buddha Nallah
9.	Jagraon	Ludhiana	Jagraon-I	DLG	12	3	SBR	Nanaksar & Malik Drain
10.	Jagraon	Ludhiana	Jagraon-II	DLG	16	5.5	SBR	
11.	Jalandhar	Jalandhar	Pholriwal-I	DLG	100	100	UASB	Kala Sanghian drain, Garha drain, jaindu singh drain & MES drain
12.	Jalandhar	Jalandhar	Pholriwal-II (Eco Chem Unit-I)	DLG	25	25	SBR	
13.	Jalandhar	Jalandhar	Pholriwal-III (Eco Chem Unit-II))	DLG	25	25	SBR	
14.	Jalandhar	Jalandhar	Basti Peer Dad	DLG	50	50	SBR	
15.	Jalandhar	Jalandhar	Bambian Wali Cantt	DLG	10	5.5	SBR	
16.	Jalandhar	Jalandhar	Jaitewali	DLG	25	18	SBR	
17.	Jalandhar	Jalandhar	Pholriwal	DLG	50	50	SBR	
18.	Jalandhar	Jalandhar	Basti Peer Dad	DLG	15	12	SBR	
19.	Phillaur	Jalandhar	Phillaur-I	DLG	3	2.15	WSP	Tehang
20.	Phillaur	Jalandhar	Phillaur-II	DLG	3	2.6	MBBR	
21.	Nakodar	Jalandhar	Nakodar	DLG	6	4	SBR	East Bein

Sr. No.	ULB	District	Name of STP	Deptt.	Capacity (MLD)	Capacity utilized (MLD)	Tech	Disposal
22.	Jalandhar	Jalandhar	East Jalndhar Cantt-I	MES	3.00	2.5	MBBR	Drain near village Sufi Pind, Jalandhar and further into Chitti Bein near village Bambian
23.	Jalandhar	Jalandhar	East Jalndhar Cantt-II	MES	3.00	2.5	MBBR	
24.	Jalandhar	Jalandhar	East Jalndhar Cantt-III	MES	0.40	0.3	MBBR	
25.	Jalandhar	Jalandhar	West Jalandhar Cantt-I	MES	1.50	1.2	MBBR	Garha drain
26.	Jalandhar	Jalandhar	West Jalandhar Cantt-II	MES	1.50	1.2	MBBR	
27.	Phagwara	Kapurthala	Phagwara-I	DLG	20	20	UASB	Phagwara Drain
28.	Phagwara	Kapurthala	Phagwara-II (Hadibad)	DLG	8	8	MBBR	
29.	Phagwara	Kapurthala	Phagwara-III (Palahi Road)	DLG	8	8	MBBR	
30.	Nawashahar	SBS Nagar	Nawashahar	DLG	6	5.50	SBR	East Bein
31.	Banga	SBS Nagar	Banga	DLG	3	3	SBR	East Bein
32.	Balachaur	SBS Nagar	Balachaur	DLG	4	3.10		Gadhi Drain
33.	Rahon	SBS Nagar	Rahon	DLG	3	2.30	-	Machhiwara Drain
34.	Hoshiarpur	Hoshiarpur	Hoshiarpur	DLG	30	2.50	MBBR	Nasrula drain to east drain
35.	Garshankar	Hoshiarpur	Garshankar	DLG	3	2.50	-	East Bein
36.	Nangal	Rupnagar	Naya Nangal (Mojowal)	DLG	8	6	ASP	Sutlej
37.	Nangal	Rupnagar	Burari Nangal	DLG	5	3	ASP	
38.	Ropar	Rupnagar	Ropar-I (Badi Haveli)	DLG	10	6	SBR	Phool drain, budhkinadi hussainpur drain
39.	Ropar	Rupnagar	Ropar-II (Rasoolpur)	DLG	3	1	SBR	
40.	Ropar	Rupnagar	Ropar-III (Sadabarat)	DLG	2	0.1	SBR	
41.	Anandpur Sahib	Rupnagar	Anandpur Sahib	DWSS	8	8	MBBR	Sutlej

Sr. No.	ULB	District	Name of STP	Deptt.	Capacity (MLD)	Capacity utilized (MLD)	Tech	Disposal
42.	Nangal	Rupnagar	Nangal	BBMB	6.75	5	ASP	onto land for plantation
43.	Morinda	Rupnagar	Morinda	DLG	6	3	SBR	Dulchi Nadi
44.	Kiratpur Sahib	Rupnagar	Kiratpur Sahib	PWSS B	2	1.04	-	Lohundkhud
45.	Goniana	Bathinda	Goniana	DLG	3	3	WSP	Chanchan drain
46.	Moga	Moga	Moga	DLG	27	27	SBR	Fidda Drain
47.	Dharamkot	Moga	Dharamkot	DLG	4	3.20	SBR	Masita Drain
48.	Baghapurana	Moga	Baghapurana	DWSS	4	2.12	-	Local Drain
49.	Abohar	Fazilka	Abohar	DLG	25	25	SBR	Abul Khurana Drain
50.	Jalalabad	Fazilka	Jalalabad	DLG	8	8	MBBR	Jalalabad Drain
51.	Malout	Muktsar	Malout-I	DLG	3	3	WSP	Ennakhera link Drain
52.	Malout	Muktsar	Malout-II	DLG	10	7	MBBR	
53.	Muktsar	Muktsar	Muktsar Sahib-I	DLG	8.7	8.7	MBBR	Chand Bhan Drain
54.	Muktsar	Muktsar	Muktsar Sahib-II	DLG	5.7	5.7	MBBR	
55.	Muktsar	Muktsar	Muktsar Sahib-III	DLG	3.5	3.5	MBBR	
56.	Gidderbaha	Muktsar	Gidderbaha	DLG	7	5	MBBR	Bawania Drain leading to Malout drain
57.	Makhu	Ferozepur	Makhu	DLG	4	3	SBR	Makhu Drain
58.	Talwandi Bhai	Ferozepur	Talwandi Bhai	DLG	4	3.2	SBR	Ferozshah Drain
59.	Zira	Ferozepur	Zira	DLG	8	7	MBBR	Zira Drain
60.	Ferozepur	Ferozepur	Ferozepur	DLG	18	18	SBR	Local Drain
61.	Kurali	Mohali	Kurali	DLG	5	4	SBR	Partially for irrigation and rest in Adhera Choe
62.	Jaito	Faridkot	Jaito	DLG	6	2	SBR	Jaito Drain
63.	Kotakapura	Faridkot	Kotakapura	DLG	8	4	MBBR	Deviwala Drain
64.	Kotakapura	Faridkot	Kotakapura	DLG	6	2.5	-	

Sr. No.	ULB	District	Name of STP	Deptt.	Capacity (MLD)	Capacity utilized (MLD)	Tech	Disposal
65.	Faridkot	Faridkot	Faridkot	DLG	14	12.6	-	Chand Bhan Drain
66.	Patti	Tarn Taran	Patti	PWSS B	8	5.9	-	Rohi Drain

Annexure 6 - List of Rural Areas discharging directly / indirectly into River Sutlej

The details of 336 villages along with their status of rejuvenation of ponds is as under:

Annexure 6 (i) - List of Rural Areas where rejuvenation work is completed :

Overall S.No.	Name of district	Name of Block	Name of Villages	Discharge in KLD	Directly/Indirectly Discharge	Estimated Cost (in lacs)	Population
1	Moga	Moga-2	Wadda Ghar	259	Sutlej	39.98	2590
2	Moga	Dharamkot At Kot Ise Khan	Shere Wala	45	Sutlej	36.63	450
3	Moga	Moga-2	Chottian Khurd	62	Sutlej	19.61	620
4	Moga	Moga-2	Thamanwala	95	Sutlej	19.76	950
5	Moga	Kot Ise Khan	Ijjatwala	49	Sutlej	39.9	490
6	Moga	Nihal Singh Wala	Dinna	403	Sutlej	37.63	4432
7	Moga	Baghapurana	Langeana Purana	299	Sutlej	37.5	3286
8	Moga	Moga-1	Bhona	295	Sutlej	35.15	3240
9	Moga	Nihal Singh Wala	Patto Jawahar Singh	97	Sutlej	27.9	970
10	Moga	Moga-1	Bugipura	450	Sutlej	31.74	4500
11	Moga	Moga-1	Charrik pati sarkar	380	Sutlej	34.2	4180
12	Moga	Nihal Singh Wala	Ransih Kalan	272	Sutlej		2987
13	Ludhiana	Machiwara	Behlolpur	262	Sutlej	6.2	2620
14	Ludhiana	Ludhiana-2	Bhaman khurd	73	Sutlej	26.14	730
15	Ludhiana	Machiwara	Rajgarh	63	Sutlej	4.16	630
16	Ludhiana	Sudhar	Jassowal	219	Sutlej	27.94	2190
17	Ludhiana	Sudhar	Sohain	262	Sutlej	29.3	2620
18	Ludhiana	Sidhwan bet	Gureh	321	Sutlej	24.57	3210
19	Ludhiana	Ludhiana-2	Marewal	32	Sutlej	19.08	320
20	Ludhiana	sudhar	Jangpur	274	Sutlej	31.80	2740
21	Ludhiana	Sudhar	Aitiana	305	Sutlej	21.52	3050
22	Ludhiana	Ludhiana-2	Kot Gangurai	229	Sutlej	37.80	2290
23	Ludhiana	Ludhiana-2	Koom kalan	274	Sutlej	32.9	2740
24	Ludhiana	Sidhwan Bet	Talwandi Kalan	289	Sutlej	26.15	2890
25	Jalandhar	Jalandhar East	Hazara	120	Sutlej		1200
26	Jalandhar	Adampur	Raowali	147	Sutlej		1470
27	Fazilka	Jalalabad	Bare Wala	35	Sutlej	40.00	350
28	Fazilka	Jalalabad (W)	Halim Wala	303	Sutlej	40.00	3863
29	Fazilka	Jalalabad (W)	Hauz Khaas	217	Sutlej	40.00	2648
30	Ropar	Ropar	Rattanpura	90	Sutlej	-	900
31	Sri Mukatsar Sahib	Sri Mukatsar Sahib	Chaktamkot	265	Sutlej		978
32	Sri Mukatsar Sahib	Gidderbaha	Bhunder	448	Sutlej		2960
33	Sri Mukatsar Sahib	Sri Mukatsar Sahib	Rupana	208	Sutlej		9079
34	SBS Nagar	Aur	Bharta Kalan	175	Sutlej	20.7	1750
35	Faridkot	Kotakpura	Nathewala	50	Sutlej	23	500
36	Hoshiarpur	Mahilpur	Dihana	57	Sutlej	-	570
37	Mukatsar Sahib	Mukatsar Sahib	Bhullar	448	Sutlej	20.44	4483

38	Mukatsar Sahib	Mukatsar Sahib	Barkandi	275	Sutlej	18.75	2750
39	Mukatsar Sahib	Gidderbaha	Lundewala	207	Sutlej	17.33	2070
40	Mukatsar Sahib	Gidderbaha	Sotha	364	Sutlej	22.26	3639
41	Mukatsar Sahib	Mukatsar Sahib	Lande Rode	105	Sutlej	21.56	1460
42	Mukatsar Sahib	Malout	Karam Patti	147	Sutlej	32.12	1359
43	Mukatsar Sahib	Malout	Shergarh	186	Sutlej	15.14	1738
44	Mukatsar Sahib	Mukatsar Sahib	Dhigana	178	Sutlej	27.92	1779
45	Mukatsar Sahib	Malout	Midha	309	Sutlej	42.89	2781
46	Mukatsar Sahib	Malout	Lakkarwala	265	Sutlej	44.59	2466
47	Mukatsar Sahib	Malout	Karniwala	58	Sutlej	14.88	581
48	Ferozpur	Ferozpur (rural)	Mohkamwala	101	Sutlej	43.04	1012
49	Ferozpur	Ferozpur (rural)	Naraingarh bhangali	162	Sutlej	44.3	1615
50	Sri Mukatsar Sahib	Malout	Sarawan Bodla Distt- Muktsar Sahib	560	Sutlej	64.63	5065
51	Sri Mukatsar Sahib	Malour	Aspal Distt- Muktsar Sahib	204	Sutlej	63.81	2063
52	Fazilka	Jalalabad	Chak Sarian	74	Sutlej	18.66	914
53	Fazilka	Jalalabad	Dhani Mohari Ram	27	Sutlej	43.55	225
54	Fazilka	Jalalabad	Janisar	44	Sutlej	34.23	634
55	Fazilka	Jalalabad	Blaki Wala	30	Sutlej	20.91	517
56	Fazilka	Jalalabad	Chak Sohna Sandar	95	Sutlej	18.95	1154
57	Fazilka	Jalalabad	Chak Sukhera	85	Sutlej	19.29	945
58	Fazilka	Jalalabad (W)	Chak Araian Wala	404	Sutlej	19.12	3856
59	Fazilka	Jalalabad (W)	Chak Janisar	239	Sutlej	27.60	2984
60	Fazilka	Jalalabad (W)	Araian Wala	101	Sutlej	66.92	1334
61	Fazilka	Jalalabad (W)	Chak Roran Wala	108	Sutlej	18.65	1424
62	Fazilka	Jalalabad	Basti Mohar Singh Wala	41	Sutlej	20.42	410
63	Fazilka	Jalalabad	Jafra Dibbi Pura	44	Sutlej	18.92	440
64	Fazilka	Jalalabad	Kottu Wala	33	Sutlej	23.76	330
65	Fazilka	Jalalabad (W)	Jalalabad (Rural)	276	Sutlej	22.85	1964
66	Fazilka	Jalalabad (W)	Kathgarh	300	Sutlej	69.04	3992
67	Fazilka	Jalalabad (W)	Chak Kabar Wala	63	Sutlej	19.65	869
68	Fazilka	Jalalabad	Chhota Tiwana	36	Sutlej	19	360
69	Moga	Moga-2	Korewala Kalan	124	Sutlej	51.14	1240
70	Moga	Nihal Singh Wala	Khai	353	Sutlej	56.04	3885
71	Moga	Moga-1	Charrik patti jangir	393	Sutlej	117.86	4321
72	Ludhiana	Sidhwan Bet	sadarpura	141	Sutlej	23.52	1410
73	Ferozepur	Ghall Khurd	Mishri Wala	119	Sutlej	42.2	1193
74	Ferozpur	Mamdot	Hamad		Sutlej	59.39	2852
75	Ferozpur	Guruhar Sahai	Kahan Singh Wala	71	Sutlej	43.17	706

Annexure 6 (ii) - List of Rural Areas where rejuvenation work is ongoing:

S.No.	Name of district	Name of Block	Name of Villages	Discharge in KLD	Directly/Indirectly Discharge	Estimated Cost (in lacs)	Population
1	Moga	Moga 1	Nahal	69	Sutlej	36.6	690
2	Ludhiana	Sudhar	Chownkimaan	382	Sutlej	36.56	3820
3	Ludhiana	Ludhiana-2	Khasi Kalan	108	Sutlej	25.78	1080
4	Ropar	Anandpur Sahib	Brahmpur Lower & Bandhlehi	193	Sutlej	9	1930
5	SBS Nagar	Nawanshahr	Langroya	398	Sutlej	60	3980
6	SBS Nagar	Nawanshahr	Usmanpur	201	Sutlej	20.4	2010
7	SBS Nagar	Nawanshahr	Mehndipur	129	Sutlej	35	1290
8	SBS Nagar	Nawanshahr	Kulam	106	Sutlej	20	1060
9	SBS Nagar	Nawanshahr	Sauna	162	Sutlej	34	1620
10	SBS Nagar	Nawanshahr	Kot Ranjha	150	Sutlej	20	1500
11	SBS Nagar	Nawanshahr	Pallian Kalan	59	Sutlej	18	590
12	Fazilka	Jalalabad	Jalalabad	43	Sutlej	17.75	716
13	Moga	Nihal Singh Wala	nihal singh wala	884	Sutlej	53.51	9727
14	Moga	Baghapurana	baghapurana	374	Sutlej	36	4117
15	Moga	Nihal Singh Wala	nihal singh wala	243	Sutlej	50	2670
16	Jalandhar	Jalandhar East		150	Sutlej	29.14	1500

17	Ludhiana	Ludhiana-2	Tajpur	115	Sutlej		-
18	Ferozpur	Zira	Mansoor Deva	267	Sutlej	41.92	2670

Annexure 6 (iii) - List of Rural Areas where rejuvenation work is yet to be started:

S.No .	Name of district	Name of Block	Name of Constituency	Name of Villages	Discharge in KLD	Directly/Indirectly Discharge	Estimated Cost (in lacs)	Population	Area of Ponds (in Acres)	No of ponds
1	Hoshiarpur	Hoshiarpur -1	Sham Chaurasi	Khalwana	53	Sutlej	16.16	530	0.5	
2	Kapurthala	Phagwara	Phagwara	Naseerabad Distt Kapurthala	121	Sutlej	33.23	1212	0.44	1
3	Kapurthala	Phagwara	Phagwara	Malikpur Distt Kapurthala	202	Sutlej	34.63	1487	1	2
4	Faridkot	Kotakpura	Kotkapura	Vill. Deviwalla	187	Sutlej	51	1870	9.31	2
5	Faridkot	Kotakpura	Kotkapura	Vill. Sirsari	133	Sutlej	28	1330	3.71	1
6	Sri Mukatsar Sahib	Malout	Malout	Bam	432	Sutlej	77.54	3967	2.04	3
7	Fazilka	Jalalabad	Jalalabad	Lakhe Ke Musahib	89	Sutlej	48.19	1219	1.1478	1
8	Fazilka	Jalalabad	Jalalabad	Sarian	82	Sutlej	70.89	1170	1.9448	1
9	Fazilka	Jalalabad	Jalalabad	Gumani Wala	55	Sutlej	34.43	970	0.6645	1
10	Fazilka	Jalalabad	Jalalabad	Chak Manne Wala	75	Sutlej	37.42	826	0.6605	1
11	Fazilka	Jalalabad	Jalalabad	Chak Rum Wala	72	Sutlej	99.12	995	2.9362	1
12	Fazilka	Jalalabad	Jalalabad	Chak Dhab Khushal Joian	59	Sutlej	32.42	785	0.5941	1
13	Fazilka	Jalalabad	Jalalabad	Chak Dumal	88	Sutlej	75.68	995	2.1131	1
14	Fazilka	Jalalabad	Jalalabad	Chak Jand Wala	90	Sutlej	39.27	1174	0.8345	1
15	Fazilka	Fazilka	Fazilka	Walleh Shah Utar	237	Sutlej	26.5	2118	0.3	1
16	Fazilka	Jalalabad (W)	Jalalabad (W)	Bahmni Wala	332	Sutlej	40	3875	2.3155	1
17	Fazilka	Jalalabad (W)	Jalalabad (W)	Chak Mauzidin Wala	221	Sutlej	20.16	2707	0.2066	1
18	Fazilka	Jalalabad (W)	Jalalabad (W)	Basti Bawrian	30	Sutlej	23.4	1625	0.7611	1
19	Fazilka	Jalalabad (W)	Fazilka	Behak Hasta Uttar	75	Sutlej	64.79	992	1.7308	1
20	Fazilka	Jalalabad (W)	Jalalabad (W)	Nukerian	341	Sutlej	23.35	3944	0.7836	1
21	Fazilka	Jalalabad (W)	Jalalabad (W)	Kamre Wala	152	Sutlej	19.45	2534	0.3949	1

22	Fazilka	Jalalabad (W)	Jalalabad (W)	Sohna Sandar	108	Sutlej	23.7 5	1294	0.7376	1
23	Fazilka	Jalalabad (W)	Jalalabad (W)	Arni Wala	108	Sutlej	88.8 6	1391	2.5757	1
24	Fazilka	Jalalabad (W)	Jalalabad (W)	Chak Lamochar	109	Sutlej	19.6 5	893	0.3437	1
25	Fazilka	Jalalabad (W)	Jalalabad (W)	Dhab Khushal Joian-1	144	Sutlej	67.6 7	2236	1.8319	1
26	Fazilka	Jalalabad (W)	Jalalabad (W)	Simre Wala	135	Sutlej	22.1 5	1958	0.5224	1
27	Fazilka	Jalalabad (W)	Jalalabad (W)	Chak Pakhi	157	Sutlej	23.4	2138	0.6262	1
28	Fazilka	Jalalabad (W)	Fazilka	Hauz Gandar	148	Sutlej	24.0 5	1940	0.6568	1
29	Fazilka	Jalalabad (W)	Jalalabad (W)	Khuranj	142	Sutlej	84.9 9	1899	3.7	2
30	Fazilka	Jalalabad (W)	Jalalabad (W)	Roran Wala	171	Sutlej	74.7	2322	2.0787	1
31	Fazilka	Jalalabad (W)	Jalalabad (W)	Chak Singhe Wala	70	Sutlej	43.8 4	976	1.85	2
32	Fazilka	Jalalabad (W)	Jalalabad (W)	Singhe Wala	42	Sutlej	48.9 4	538	1.1743	1
33	Fazilka	Jalalabad (W)	Jalalabad (W)	Chak Khare Wala	85	Sutlej	21.3 5	1226	0.5491	1
34	Fazilka	Jalalabad (W)	Jalalabad (W)	Janisar	44	Sutlej	24.6 5	634	0.9679	1
35	Fazilka	Jalalabad	Jalalabad	Sh Uddham Singh Nagar	37	Sutlej	21.7 7	370	0.22	1
36	Fazilka	Jalalabad	Jalalabad	Chak Bhabra	38	Sutlej	61.0 7	380	1.6	1
37	Fazilka	Jalalabad	Jalalabad	Chak Bhamba Wattu	37	Sutlej	47.9 7	370	1.14	1
38	Moga	Kot Ise Khan	Dharamkot	Balkhandi	110	Sutlej	30.8	1100	2.5+1.25=3.75	2
39	Moga	Kot Ise Khan	Moga	Chur chak	176	Sutlej	38	1936	2	1
40	Moga	Nihal Singh wala	Nihal Singh Wala	Burj Dunna	148	Sutlej	66.1 9	1480	2.2	1
41	Moga	Nihal Singh wala	Nihal Singh Wala	Kishangarh	185	Sutlej	53.2 2	1850	1.2	1
42	Moga	Nihal Singh wala	Nihal Singh Wala	Beer Badhni	108	Sutlej	25.2	1080	0.7	1
43	Moga	Baghapurana	baghapurana	Cheda	197	Sutlej	32.2	1970	1.5+3=4.5	2
44	Moga	Kot Ise Khan	Dharamkot	Bagge	53	Sutlej	35	530	1	1
45	Moga	Moga-2	baghapurana	Chottian Tobba	88	Sutlej	48.8 3	880	2	1

46	Moga	Moga-2	Moga	Mothawali	99	Sutlej	53.0 5	990	1.5	1
47	Moga	Moga-1	Nihal Singh Wala	Kokri Kalan	829	Sutlej	155	8290	23	1
48	Moga	Moga-2	Moga	Daroli Bhai	601	Sutlej	135	6010	10.5	6
49	Moga	Baghapura na	baghapur ana	Samalsar	111 9	Sutlej	70	7261	10	3
50	Moga	Baghapura na	baghapur ana	Rajiana	849	Sutlej	39	3267	2	1
51	Moga	Baghapura na	baghapur ana	Budh Singh Wala	280	Sutlej	37	3081	6.5	2
52	Moga	Baghapura na	baghapur ana	Mahla Kalan	506	Sutlej	65	5561	4	2
53	Moga	Nihal Singh Wala	nihal singh wala	Himmatpur a	800	Sutlej	79.7	8795	2.09	3
54	Moga	Nihal Singh Wala	nihal singh wala	Saidoke	777	Sutlej	114. 25	8548	8.15	4
55	Moga	Nihal Singh Wala	nihal singh wala	Malleana	303	Sutlej	42.8	3336	1	1
56	Moga	Nihal Singh Wala	nihal singh wala	Rania	724	Sutlej	55.7 2	7962	1	1
57	Moga	Nihal Singh Wala	nihal singh wala	Nangal	276	Sutlej	41.8 9	3038	8.41	1
58	Moga	Nihal Singh Wala	nihal singh wala	Patto Heera Singh	661	Sutlej	39.5 7	7274	3.53	1
59	Moga	Baghapura na	baghapur ana	Tharaj	531	Sutlej	35	4207	7	3
60	Moga	Baghapura na	baghapur ana	Kotla Mehar Singh Wala	313	Sutlej	29	3441	3.5	1
61	Moga	Baghapura na	baghapur ana	Ladhai ke	206	Sutlej	25	2262	5	1
62	Moga	Baghapura na	baghapur ana	Sekha Kalan a	483	Sutlej	65	5317	6.5	3
63	Moga	Moga-2	moga	Mangewala	246	Sutlej	39.4 6	2700	2.5	1
64	Moga	Moga-2	moga	Nidhanwal a	202	Sutlej	33.5 5	2140	2.05	1
65	Moga	Moga-2	moga	Kaliye wala	202	Sutlej	39.1 2	2016	13.7	2
66	Moga	Moga-2	baghapur ana	Jaimal Wala	340	Sutlej	37.8 6	3742	1	1
67	Moga	Moga-2	baghapur ana	Chand Nawan	411	Sutlej	16.1	4522	2.88	2
68	Moga	Moga-2	moga	Dagru	313	Sutlej	41.6 3	3441	1.63	1
69	Moga	Moga-2	moga	Baghelewal a	592	Sutlej	37.6 8	1533	1.5	2
70	Moga	Moga-2	moga	Jhandeana Garbi	359	Sutlej	40.6 7	3946	2.1	1
71	Moga	Moga-1	nihal singh wala	Buttar kalan	498	Sutlej	96.2	5478	13.21	4
72	Moga	Moga-1	nihal singh wala	Buttar patti bhullar	482	Sutlej	75.4 3	5302	4.3	3

73	Moga	Dharamkot At Kot Ise Khan	Dharamkot	Kot Sadar Khan	259	Sutlej	37.4 6	2590	4	2
74	Ludhiana	Sidhwan Bet	Malsihan Bhaikhe	malsia bhaikhe	94	Sutlej	20.6 7	940	0.33	"
75	Ferozpur	Ghall Khurd	Ferozepur (Rural)	Mana Singh Wal	185	Sutlej	31.6 5	1851	3	1
76	Ferozpur	Ghall Khurd	Ferozepur (Rural)	Fidde	160	Sutlej	23	1597	2.5	1
77	Ferozpur	Guruharsa hai	Guruharsa hai	Nidhana	180	Sutlej	38.9	1804	1.5	1
78	Moga	Dharamkot At Kot Ise Khan	Dharamkot	Attari	95	Sutlej	39.7 3	950	1	1
79	Moga	Baghapura na		Sekha Khurd	130	Sutlej	38	1350	3	1
80	Moga	Dharamkot At Kot Ise Khan	Dharamkot	Indergarh	395	Sutlej	74.8 5	3950	4	-
81	Moga	Moga-2	Bagah purana	Gill	237	Sutlej	37.4	2370	2	1
82	Moga	Moga-2	Moga	Daulatpur Niwan	332	Sutlej	19.9 4	3320	4	-
83	Moga	Moga-2	baghapur ana	Chotta Ghar	120	Sutlej	-	1200		-
84	Moga	Moga-2	Moga	Daulatpura Ucha	193	Sutlej	-	1930	1	-
85	Moga	Moga-1	Dharamkot	Mehna	449	Sutlej	85	4490	1.5	1
86	Ludhiana	Ludhiana-2	Sahnewal	Harian	325	Sutlej	38.5 4	3250	2	
87	Ludhiana	Ludhiana-2	Sahnewal	Sidhupur	400	Sutlej	38.4 7	4000	2	
88	Ludhiana	Sudhar	Raipur	Hissowal	217	Sutlej	27.9 4	2170	1.5	
89	Ludhiana	Sudhar	Dakha	Raqba	305	Sutlej	20.9 1	3050	0.5	
90	Ludhiana	Sudhar	Dakha	Hans Kalan	487	Sutlej	28.5 8	4870	2	
91	Ludhiana	Sudhar	Raikot	Halwara	276	Sutlej	106. 38	2760	3	
92	Ludhiana	Sidhwan bet	Dakha	Talwandi Khurd	233	Sutlej	6.6	2330	-	
93	Ludhiana	Dehlon	Gill	Gopalpur	250	Sutlej	21.4	2500	3.25	
94	Ludhiana	Ludhiana-1	Gill	Baranhara	146	Sutlej	29.7 6	1460	1	
95	Ludhiana	Ludhiana-1	Gill	Talwara	106	Sutlej	38.7 8	1060	-	
96	Ludhiana	Sidhwan Bet	Dakha	Kotmana	110	Sutlej	6.6	1100	-	
97	Ludhiana	Ludhiana-2	Sahnewal	Panjeta	176	Sutlej	35.4 5	1760	2.5	
98	Ludhiana	Sudhar	Dakha	Heran	282	Sutlej	32.1	2820	4	
99	Ludhiana	Ludhiana-2	Sahnewal	Bhaman kalan	114	Sutlej	33.5 8	1140	1	

100	Ludhiana	Sidhwan Bet	Dakha	Gorsian Kadar Bakash	65	Sutlej	6.6	650	-	
101	Ludhiana	sudhar	Raikot	Rattowal	207	Sutlej		-		
102	Ludhiana	Ludhiana-2		Gounspur	74	Sutlej				
103	Ludhiana	Ludhiana-2		Koom khurd	57	Sutlej				
104	Ludhiana	Sudhar			373	Sutlej				
105	Ludhiana	Samrala	Samrala	Neelon Khurd	95	Sutlej	-			
106	Ludhiana	Machiwara	Samrala	Tanda Kalia	64	Sutlej	-			
107	Jalandhar	Jalandhar East		Diwali r	124	Sutlej	-	1368	-	-
108	Jalandhar	Jalandhar East		Dhadda\	198	Sutlej	-	484	0.5	1
109	Jalandhar	Jalandhar East		Jaitewali\	210	Sutlej	-	2323	-	-
110	Jalandhar	Jalandhar East		Chandpur \	108	Sutlej	-	1185	-	-
111	Jalandhar	Jalandhar East		Kabulpur\	141	Sutlej	-	1550	-	-
112	Jalandhar	Jalandhar East		Singhpur Dona	59	Sutlej	-	644	-	-
113	Jalandhar	Jalandhar East		Bulandpur\ r	48	Sutlej	-	3027+134=3161	3.87+0.17=4.04	2
114	Jalandhar	Jalandhar East		Khunkhun \	75	Sutlej	-	2825	-	-
115	Jalandhar	Lohian Khas		Nawa Pind Khalewal	92	Sutlej	-	850	-	-
116	Jalandhar	Shahkot		Mehmadpur	90	Sutlej	-	464	-	-
117	Jalandhar	Jalandhar East	Jalandhar Cantt.	Kukadpind	273	Sutlej	-	3003	-	-
118	Jalandhar	Shahkot	Shahkot	Sahla Nagar	248	Sutlej	-	2478	-	-
119	Jalandhar	Nakodar	Nakodar	Kang Sahib Rai	269	Sutlej	34.67	1386	1.5	1
120	Jalandhar	Nakodar		Kangana	220	Sutlej	-	2419	-	-
121	Jalandhar	Jalandhar West	Kartarpur	Athola	216	Sutlej	108.46	2164	1.5	1
122	Jalandhar	Jalandhar East	Jalandhar Cantt.	Pholriwal (Upstream Point Source)	204	Sutlej	-	2210	-	0
123	Jalandhar	Jalandhar East	Jalandhar Cantt.	Pholriwal (Downstream Point Source)	204	Sutlej	-	2274	-	0
124	Jalandhar	Jalandhar East	Jalandhar Cantt.	Jamsher Khas r	844	Sutlej	-	9844	-	-
125	Jalandhar	Jalandhar East	Adampur	Patara	261	Sutlej	-	2866	-	-
126	Jalandhar	Adampur	Adampur	Daroli Kalan	202	Sutlej	-	2610	-	-

127	Jalandhar	Adampur	Adampur	Kalra	286	Sutlej	-	1819	-	-
128	Jalandhar	Rurka Kalan	jalandhar Cantt.	Bundala	688	Sutlej	-	6929	-	-
129	Jalandhar	Rurka Kalan	jalandhar Cantt.	Kahna Dhesian	332	Sutlej	-	3324	-	-
130	Jalandhar	Rurka Kalan	jalandhar Cantt.	Samrai	451	Sutlej	-	5408	-	-
131	Jalandhar	Rurka Kalan	jalandhar Cantt.	Jandiala	849	Sutlej	-	8437	-	-
132	Jalandhar	Rurka Kalan	jalandhar Cantt.	Kanganiwal	204	Sutlej	25	1180	1	1
133	Jalandhar	Phillaur	Phillaur	Tehang	280	Sutlej	-	449	-	-
134	Jalandhar	Phillaur	Phillaur	Garha	287	Sutlej	-	3155	-	-
135	Jalandhar	Jalandhar East	Adampur	Parasrampur	163	Sutlej	-	1794	-	0
136	Jalandhar	Adampur	Adampur	Arjanwal	170	Sutlej	-	1432	-	-
137	Jalandhar	Shahkot	Shahkot	Akalpur	199	Sutlej	-	1993	-	-
138	Jalandhar	Shahkot	Shahkot	Malsian	194	Sutlej	-	1944	-	-
139	Jalandhar	Shahkot	Shahkot	Laksian	136	Sutlej	-	1357	-	-
140	Jalandhar	Shahkot	Shahkot	Haveli	132	Sutlej	-	1324	-	-
141	Jalandhar	Nakodar	Nakodar	Mallian Kalan	116	Sutlej	-	1216	-	-
142	Jalandhar	Phillaur	Phillaur	Sifabad and Parkash Colony (Two Outlets)	167	Sutlej	-	1834	-	-
143	Jalandhar	Nurmehal	Nakodar	Gag Dhagara	50	Sutlej				
144	Jalandhar	Shahkot	Shahkot	Khurampur	94	Sutlej				
145	Jalandhar	Nakodar	Kartarpur	Begampur	85	Sutlej				
146	Jalandhar	jalandhar West	Kartarpur	Chamiara	86	Sutlej				
147	Jalandhar	Nakodar	Nakodar	Baghpur	26	Sutlej				
148	Ferozpur	Zira	Zira	Zira New	70	Sutlej	25	700	0.75	1
149	Ferozpur	Ghall Khurd	Ferozepur Rural	Piareana	97	Sutlej	29.47	970	0.75	1
150	Ferozpur	Mamdot	Guruhar sahai	Ali Ke Jhughia	68	Sutlej	23.18	680	0.5	1
151	Ferozpur	Zira	Zira	Talwandi Mange Khan	356	Sutlej	41.18	3560	2.25	1
152	Ferozpur	Zira	Zira	Talwandi Jalle Khan	260	Sutlej	41.25	2600	3	1
153	Ferozpur	Zira	Zira	Sukhe Wala	324	Sutlej	41.92	3240	3.8	1
154	Ferozpur	Zira	Zira	Alipur	228	Sutlej	35.71	2280	1	1
155	Ferozpur	Mamdot	Guruhar sahai	Basti Labh Singh	25	Sutlej	58.55	250	1.4	1
156	Ferozpur	Mamdot	Ferozepur Rural	Murak Wala	45	Sutlej	50.9	450	1.5	1
157	Ferozpur	Mamdot	Ferozepur Rural	Shaheed Jarnial Singh	70	Sutlej		700		

158	Ferozpur	Mamdot	Guruhar sahai	Har Gobindpur a	31	Sutlej	46.4 8	310	1.5	1
159	Ferozpur	Mamdot	Guruhar sahai	Basti Jatta Singh	30	Sutlej		300		
160	Ferozpur	Mamdot	Guruhar sahai	Dona Matter Hittar	81	Sutlej	33.0 5	810	1.5	1
161	Ferozpur	Guruhar sahai	Guruhar sahai	Sekhra	44	Sutlej	30.4	440	2	1
162	Ferozpur	Guruhar sahai	Guruhar sahai	Haddi Wala	90	Sutlej	58.9	900	2.27	1
163	Ferozpur	Mamdot	Ferozepur (Rural)	Basti Amrik Singh	60	Sutlej	-	356	^	-
164	Ferozpur	Guruhar sahai	Guruharsa hai	Basti Bohrian	55	Sutlej	-	900	^	-
165	Ferozpur	Ghall Khurd	Ferozepur (Rural)	Rukna Begu	203	Sutlej	-	2028	1.42	1
166	Ferozpur	Ghall Khurd	Ferozepur (Rural)	Ghall Khurd	216	Sutlej	43.2 2	2160	1.25	1
167	Ferozpur	Ghall Khurd	Ferozepur (Rural)	Kot Karor Kalan	398	Sutlej	49.9 9	3980	2	1
168	Ferozpur	Mamdot	Guruharsa hai	Dilaram	200	Sutlej	-	2000	^	-
169	Ferozpur	Ghall Khurd	Ferozepur (Rural)	Haraz	322	Sutlej	-	3218	4	1
170	Ferozpur	Guruharsa hai	Guruharsa hai	Mohan Ke Uttar	447	Sutlej	-	4470	-	-
171	Ferozpur	Guruharsa hai	Guruharsa hai	Panje Ke Uttar	416	Sutlej	60.4 8	4164	0.5	1
172	Ferozpur	Zira	Zira	Ratol Bet	163	Sutlej	41.0 5	1634	1.25	1
173	Ferozpur	Zira	Zira	Malloke	179	Sutlej	42.2 4	1790	2.5	1
174	Ferozpur	Ghall Khurd	Ferozepur (Rural)	Valoor	127	Sutlej		1274	-	1
175	Ferozpur	Mamdot	Guruharsa hai	Matter Hittar	140	Sutlej	-	1400	-	-
176	Ferozpur	Mamdot	Ferozepur (Rural)	Lakhmir Ke Uttar	155	Sutlej	-	1550	-	-
177	Ferozpur	Mamdot	Guruharsa hai	Dona Mattar	155	Sutlej	-	1550	-	-
178	Ferozpur	Ghall Khurd	Ferozepur (Rural)	Sulhani	197	Sutlej	59.0 5	1974	3	1
179	Ferozpur	Guruharsa hai	Guruharsa hai	Basti Saroop Wali	151	Sutlej	-	1510	-	-
180	Ferozpur	Guruharsa hai	Guruharsa hai	Chak Nidhana	159	Sutlej	-	1588	-	-
181	Ferozpur	Guruhar Sahai	Guruhar Sahai	Thathera Wala	68	Sutlej				
182	Ferozpur	Guruhar Sahai	Guruhar Sahai	Jamalgarh	81	Sutlej	45.3 8	806	3.5	1
183	Ferozpur	Guruhar Sahai	Guruhar Sahai	Basti Jawai Singh Wali	81	Sutlej				

184	Fazilka	Jalalabad	Jalalabad	Chak Suhele Wala	175	Sutlej		1858		
185	Fazilka	Jalalabad	Jalalabad	Mandi Amin Ganj	62	Sutlej		2169		
186	Fazilka	Jalalabad	Jalalabad	Chak Mochan Wala	63	Sutlej		736		
187	Fazilka	Jalalabad	Jalalabad	Chak Punna Wala	76	Sutlej		988		
188	Fazilka	Jalalabad	Jalalabad	Chak Sotrian	85	Sutlej		727		
189	Fazilka	Jalalabad	Jalalabad	Dhab Khushal Joian-2	85	Sutlej		711		
190	Fazilka	Jalalabad	Jalalabad	Dhani Prem Singh	52	Sutlej		893		
191	Fazilka	Jalalabad	Fazilka	Jhuge Lal Singh	75	Sutlej		985		
192	Fazilka	Jalalabad	Jalalabad	Jhuge Tek Singh	35	Sutlej		284		
193	Fazilka	Jalalabad	Jalalabad	Khund Wala Sainia	41	Sutlej		479		
194	Fazilka	Jalalabad	Jalalabad	Dhani Kartar Singh	53	Sutlej		455		
195	Fazilka	Jalalabad	Jalalabad	Dhani Resham Singh	28	Sutlej		745		
196	Fazilka	Jalalabad	Jalalabad	Dhani Sardool Singh	28	Sutlej		351		
197	Fazilka	Jalalabad	Jalalabad	Mine Wala	56	Sutlej		920		
198	Fazilka	Jalalabad	Jalalabad	Basti Ranjeet Singh	41	Sutlej		477		
199	Fazilka	Jalalabad	Jalalabad	Chak Panni Wala Distt. Fazilka	42	Sutlej		599		
200	Fazilka	Jalalabad	Jalalabad	Basti Dilawar Singh Distt. Fazilka	45	Sutlej		405		
201	Fazilka	Jalalabad	Jalalabad	Bharoli Wala	62	Sutlej		842		
202	Fazilka	Jalalabad	Jalalabad	Chak Totian Wala	75	Sutlej		812		
203	Fazilka	Jalalabad	Jalalabad	Falian Wala Distt. Fazilka	45	Sutlej		518		
204	Fazilka	Jalalabad	Jalalabad	Jhuge Fangian Distt. Fazilka	45	Sutlej		425		

205	Fazilka	Jalalabad	Jalalabad	Jhuge Jawahar Singh Distt. Fazilka	53	Sutlej		1112		
206	Fazilka	Jalalabad	Jalalabad	Chak Khund Wala Distt. Fazilka	96	Sutlej		1253		
207	Fazilka	Jalalabad	Fazilka	Basti Chandigarh	85	Sutlej		1319		
208	Fazilka	Jalalabad	Jalalabad	Chak Arni Wala	222	Sutlej		2729		
209	Fazilka	Jalalabad	Fazilka	Mandi Ladhu Ka	355	Sutlej		4808		
210	Fazilka	Jalalabad	Jalalabad	Ladhu Wala Uttar	226	Sutlej		2763		
211	Fazilka	Jalalabad	Jalalabad	Kanla wale Jhuge	119	Sutlej		981		
212	Fazilka	Jalalabad	Jalalabad	Chak Mohamade Wala	118	Sutlej		1570		
213	Fazilka	Jalalabad	Jalalabad	Dhab Karyal	105	Sutlej		1366		
214	Fazilka	Jalalabad west	Jalalabad	Basti Balluaana	285	Sutlej		1987		
215	Hoshiarpur	Mahilpur		Parsowal	80	Sutlej				
216	Hoshiarpur	Mahilpur		Handhowal	40	Sutlej				
217	Hoshiarpur	Mahilpur		Taulin Distt. Hoshiarpur	60	Sutlej				
218	Hoshiarpur	Mahilpur		Jangliana	30	Sutlej				
219	Hoshiarpur	Mahilpur		Gopalian Distt. Hoshiarpur	20	Sutlej				
220	Hoshiarpur	Mahilpur		Dandian	17	Sutlej				
221	Hoshiarpur	Mahilpur		Mahal Baltoian	12	Sutlej				
222	Hoshiarpur	Hoshiarpur -1		Bassi Gulam Hussain	280	Sutlej				
223	Hoshiarpur	Hoshiarpur -1		Piala	429	Sutlej				
224	Hoshiarpur	Hoshiarpur -1		Hardokhan pur	352	Sutlej				
225	Hoshiarpur	Hoshiarpur -2		Chaunni Kalan Distt. Hoshiarpur	280	Sutlej				
226	Hoshiarpur	Hoshiarpur -2		Patti Distt. Hoshiarpur	370	Sutlej				
227	Hoshiarpur	Hoshiarpur -2		Badla Distt. Hoshiarpur	285	Sutlej				
228	Hoshiarpur	Hoshiarpur -2		Harta Distt. Hoshiarpur	295	Sutlej				
229	Hoshiarpur	Hoshiarpur -2		Shergarh Distt. Hoshiarpur	264	Sutlej				

230	Hoshiarpur	Hoshiarpur -2		Bassi kalan Distt. Hoshiarpur	236	Sutlej				
231	Hoshiarpur	Mahilpur		Bachhohi Distt. Hoshiarpur	255	Sutlej				
232	Hoshiarpur	Hoshiarpur -2		Saleran Distt. Hoshiarpur	120	Sutlej				
233	Hoshiarpur	Hoshiarpur -2		Meghowal Distt. Hoshiarpur	134	Sutlej				
234	Hoshiarpur	Hoshiarpur -2		Salempur Distt. Hoshiarpur	120	Sutlej				
235	Hoshiarpur	Hoshiarpur -2		Harmoian Distt. Hoshiarpur	145	Sutlej				
236	Hoshiarpur	Hoshiarpur -2		Mehna Distt. Hoshiarpur	136	Sutlej				
237	Hoshiarpur	Hoshiarpur -2		Changran Distt. Hoshiarpur	162	Sutlej				
238	Hoshiarpur	Mahilpur		Mukhmajar a Distt. Hoshiarpur	125	Sutlej				
239	Hoshiarpur	Hoshiarpur -2		Naugraian Distt. Hoshiarpur	30	Sutlej				
240	Hoshiarpur	Hoshiarpur -2		Bassi jamal Khan Distt. Hoshiarpur	23	Sutlej				
241	Hoshiarpur	Hoshiarpur -2		Kila Sher Khan Distt. Hoshiarpur	12	Sutlej				
242	Kapurthala	Phagwara	Phagwara	Panchat Distt Kapurthala	452	Sutlej	93.2 3	4477	3.5	3
243	Kapurthala	Phagwara	Phagwara	Nangal Majja Distt. Kapurthala	205	Sutlej	0	2053	0.25	1

Annexure 7 – Health Care Facilities (HCFs) operating in the catchment area of River Sutlej

Sr. No	Town Name	No. of HCFs covered	No. of bedded HCFs	No. of non-bedded HCFs	No. of HCFs made agreement with CBWTF
1	Nangal	58	16	42	All
2	Sri Anandpur Sahib	166	30	86	All
3	Ropar	161	31	130	All
4	Jalandhar	997	325	674	All
5	Ludhiana	1264	456	808	All
6	Moga	257	107	150	All
7	Phagwara	143	50	93	All
8	Phillaur	40	16	24	All
9	Kurali	49	11	38	All
10	Banga	70	38	32	All
11	Hoshiarpur	940	204	736	All
12	SBS Nagar	211	74	137	All
13	Sri Kiratpur Sahib	8	0	8	0
14	Ferozpur	64	16	48	All
15	Zira	47	18	29	All
16	Machiwara	29	15	14	All
17	Dharamkot	9	3	6	All
18	Makhu	18	6	12	All
19	Talwandi Bhai	21	10	11	All
20	Sri Muktsar Sahib	278	103	175	All
21	Fazilka	195	86	109	All

Annexure 8 - Status of Common Bio-Medical Waste Treatment Facilities (CBMWTFs)- Facility wise details of area catered by the CBMWTF's

Sr. No.	Name & Address of the CBMWTF with contact person name and telephone no.	Name of the cities/areas covered by CBMWTF	Concerned Regional Office	Total no. of beds covered	Total no. of HCFs covered	BMW Installed Treatment Capacity kg/day
1.	M/s Rainbow Environment Pvt. Ltd., Village Balyali, Mohali	Fatehgarh Sahib, Patiala, Ropar, SAS Nagar, districts	S.A.S Nagar Mohali Punjab	16200	2993	7655 kg/d
2.	Meridian Milleu Care Private Limited, Village Bir Pind, Tehsil Nakodar, District Jalandhar	District Jalandhar, District Barnala & District Moga	Regional Office, Kapurthala	13386	2172	10000 Kg/day
3.	M/s Medwaste Sollutions Pvt. Ltd., Village Bidowali, Tehsil Gidderbaha, Dist. Sri Muktsar Sahib	Bathinda, Faridkot, Ferozepur, Sri Muktsar Sahib & Fazilka	Regional Office, Sri Muktsar Sahib	14632	2322	3500 kg/d
4.	Amritsar Envirocare Systems Pvt.Ltd. Vill.Ibban Kalan,Chabhal Road, Amritsar.	Amritsar, Tarn-Taran	Amritsar	13522	1537	8200 kg/d
5.	M/s Bio Medical Waste Treatment Plant Pvt. Ltd	Vill. Pangoli, Distt. Pathankot	District Pathankot, Gurdaspur, Hoshiarpur, SBS Nagar & Kapurthala	13865	2559	3000 kg/day
6.	Medicare Environmental Management Pvt Ltd, Opp. Central Jail, Tajpur Road, Ludhiana	Ludhiana, Sangrur, Malerkotla	Regional Office-2, Ludhiana	17927	2482	5000 Kg/d
Total				89532	14065	37355

Annexure 9 - Status of Hazardous Waste Generated as on 31.3.2025

Sr. No.	Name of the District	No. of Industries	Authorized Quantity of Hazardous Waste (Metric Tonne)					Quantity of Hazardous Waste generated as per Annual Return within the State/ UT (Metric Tonne)			
			1	2	3	4	5	6	7	8	9
				Landfillable	Incinerable	Recyclable	Utilizable	Landfillable	Incinerable	Recyclable	Utilizable
1	Hoshiarpur	46	2799.18	1253.538	1394.55	0	2421.246	58.818	53.412	0	
	Shaheed Shagat Singh Nagar	20	356.59	835.692	929.7	0	1614.164	39.212	35.608	0	
2	Jalandhar	218	305.91	20.55	643	572.23	34	24.5	28.5	118	
	RO Kapurthala	174	3950.18	112.13	7576.5	0	4090.411	19.398	2746.31	0	
3	Faridkot	12	2.418	0	182.38	0	2.365	0	181.3	0	
	Moga	32	9.217	2.227	546.053	0	8.74	1.9	391.44	0	
	Ferozepur	15	0.23145	0	163.185	0	0.168	0	146.173	0	
	Fazilka	9	543.81	0.4	10.8	0	212.42	0.2	4.03	0	
	Sri Muktsar Sahib	12	7263.86	0.72	0.79	0	5532.18	0.24	0.48	0	
4	Ludhiana-1	501	730	20.1	1103	5.5485	699	19.8	1050	3	
5	Ludhiana-2	327	2895.3	167.32	1687.52	232.57	1986.79	149.52	967.524	185.829	
6	Ludhiana-3	185	4592.86	99	228.66	0	4046.1	6.078	1126.35	0	
7	Ludhiana-4	346	2470.95	26.98	73.69	0	2201.95	25.92	51.43	0	
8	Rupnagar	28	816	31	15404	0	96	29.8	2345	0	
	Total	1923	26736.50	2569.65	29943.82	810.34	22945.53	375.38	9127.55	306.82	

Annexure 10– Status of E-wastes Facility wise details of area catered by the E-wastes

Sr. No.	Name & Address of the E-waste facility with contact person name and telephone no.	Capacity of E-Waste Handling
1.	M/S K.J. Recyclers, Plot No. C-38, Sanjay Gandhi Nagar, Industrial Area, Jalandhar Sh. Pardeep Nalwa 9810702359	600 TPA
2.	Cosmos Recycling Private Limited, Mullanpur Road, Opp. Dashmesh Dharam Kanda, VPO Hambran, Ludhiana	10500 TPA
3.	M/s Spreco Recycling, Tehsil Raikot, District Ludhiana	0.8 TPD

Annexure 11 – Details of STPs under constuction

Sr. No.	River	District	Deptt.	ULB	Location of STP	Cap. (MLD)	Sewage Generation (MLD)	Completion Timeline	Disposal
1	Sutlej	Ferozepur	DLG	Guru Har Sahai	Guru Har Sahai	1	0.5	31.03.26	Jalalabad Drain
2	Sutlej	Ferozepur	DLG	Guru Har Sahai	Guru Har Sahai	4	2	31.03.26	
3	Sutlej	Ferozepur	DLG	Mamdot	Mamdot	2	1.37	30.09.25	Mamdot Drain
4	Sutlej	Ferozepur	DLG	Mudki	Mudki	2	1.5	30.09.25	Mudki Drain
5	Sutlej	Hoshiarpur	DLG	Mahilpur	Mahilpur	3	1.7	31.07.25	Barsati Drain
6	Sutlej	Bathinda	DLG	Maluka	Maluka	1	.78	30.06.26	Chanchan Drain
7	Sutlej	Bathinda	DLG	Bhai Roopa	Bhai Roopa	2.5	1.87	31.07.26	Chand Bhan Drain
8	Sutlej	Bathinda	DLG	Kotha Guru	Kotha Guru	2	1.35	31.07.26	
9	Sutlej	Muktsar Sahib	DLG	Muktsar Sahib	Muktsar Sahib	5	3.5	30.06.26	
10	Sutlej	Bathinda	DLG	Bhagta Bhaike	Bhagta Bhaike	3	2.1	31.08.26	
11	Sutlej	Ludhiana	DLG	Raikot	Raikot	7	4.2	31.12.25	Local Drain

Annexure 12 - Sewage Treatment Facilities proposed to be set up

Sr. No.	River	District	ULB	Location	Deptt.	Cap. (MLD)	Sewage Generation (MLD)	Status of Project	Disposal
1.	Sutlej	Fazilka	Arniwala	Arniwala	PWSSB	2	1.33	Tender Stage	Baam Drain-Ditch Drain
2.	Sutlej	Muktsar	Barriwala	Barriwala	PWSSB	2	1.3	Tender Stage	SaraiNaya drain to chandbhan drain
3.	Sutlej	Ferozepur	Mallanwala	Mallanwala	PWSSB	4	2.4	Tender Stage	Jattanwali drain
4.	Sutlej	Moga	Nihal Singh Wala	Nihal Singh Wala	PWSSB	2	1.52	Tender Stage	Jwaharsingh wala drain
5.	Sutlej	Moga	Moga	Moga	PWSSB	30	6	Tender Stage	Fidda Drain

Annexure 13 – Status of Irrigation Schemes/Projects to utilize the Treated Wastewater of STPs for Irrigation Purposes

Sr. No.	District	Name of STP/ Town	Concerned Deptt.	Cap. (MLD)	Tech.	STP Status	Area (ha)	Fund Requirement (Rs in Lakh)	Remarks
Comissioned Irrigation Projects									
1	Jalandhar	Bambian Wali Cantt	MCJ	10.00	SBR	Functional	330	Tied up	
2	Jalandhar	Jaitewali	MCJ	25.00	SBR	Functional	300	Tied up	
3	Kapurthala	Phagwara-I	PWSSB	20.00	UASB	Functional	400	Tied up	
4	Kapurthala	Phagwara-III (Palahi Road)	PWSSB	8.00	MBBR	Functional		Tied up	
5	Jalandhar	Phillaur-II	PWSSB	3.00	WSP	Functional	80	Tied up	
6	Jalandhar	Nakodar	PWSSB	6.00	SBR	Functional	182	Tied up	
7	Rupnagar	Naya Nangal (Mojowal)	PWSSB	8.00	ASP	Functional	280	Tied up	
8	Ludhiana	Machhiwara	PWSSB	4.00	SBR	Functional	30	Tied up	
9	Rupnagar	Ropar-I (Badi Haveli)	PWSSB	10.00	SBR	Functional	101	Tied up	
10	Rupnagar	Ropar-II (Rasoolpur)	PWSSB	2.50	SBR	Functional	81	Tied up	
11	Rupnagar	Ropar-III (Sadabarat)	PWSSB	2.00	SBR	Functional	73	Tied up	
12	Muktsar	Malout-I	PWSSB	3.00	WSP	Functional	65	Tied up	
13	Moga	Dharamkot	PWSSB	4.00	SBR	Functional	162	Tied up	
14	Ferozepur	Makhu	PWSSB	4.00	SBR	Functional	121	Tied up	
15	Ferozepur	Talwandi Bhai	PWSSB	4.00	SBR	Functional	147	Tied up	
16	Ferozepur	Zira	PWSSB	8.00	MBBR	Functional	300	Tied up	
17	Fazilka	Jalalabad	MC	8.00	MBBR	Functional	202	Tied up	
18	Muktsar	Muktsar Sahib-I	DWSS	8.70	MBBR	Functional	162	Tied up	
19	Muktsar	Muktsar Sahib-II	DWSS	5.70	MBBR	Functional	75	Tied up	
20	Rupnagar	Anandpur Sahib	DWSS	8.00	MBBR	Functional	293	Tied up	
21	Mohali	Kurali	GMADA	5.00	SBR	Functional	132	Tied up	
22	Rupnagar	Nangal	BBMB	1.60	ASP	Functional	253	Tied up	
23	Bathinda	Goniana	PWSSB	3.00	WSP	Functional	120	Tied up	
24	Moga	Baghapurana	DWSS	4.00	-	Functional	155	Tied up	
				165.50			4044.00		
Irrigation Projects under progress									
1	Jalandhar	Basti Peer Dad	MCJ	50.00	SBR	Functional	550	Tied up	

Sr. No.	District	Name of STP/ Town	Concerned Deptt.	Cap. (MLD)	Tech.	STP Status	Area (ha)	Fund Requirement (Rs in Lakh)	Remarks
2	Hoshiarpur	Hoshiarpur	PWSSB	30.00	MBBR	Functional	1030	Tied up	
3	Ludhiana	Jagraon-II	PWSSB	16.00	SBR	Functional	426	Tied up	
4	Fazilka	Abohar	PWSSB	25.00	SBR	Functional	1225	Tied up	
5	Muktsar	Malout-II	PWSSB	10.00	MBBR	Functional	200	Tied up	
6	Faridkot	Kotakapura	PWSSB	8.00	-	Functional	260	Tied up	
7	Hoshiarpur	Garshankar	PWSSB	3.00		Functional	125	Tied up	
8	Ludhiana	Raikot	-	7.00	-	Functional	160	Tied up	
9	Moga	Moga	PWSSB	27.00	SBR	Functional	1019	Tied up	
				176.00			4995.00		
Irrigation projects not feasible									
1	Ludhiana	Bhattian-I	MCL	111.00	UASB	Functional		Not feasible	Farmers are reluctant to use the water for irrigation due to color and foul smell.
2	Ludhiana	Bhattian-II	MCL	50.00	SBR	Functional		Not feasible	Farmers are reluctant to use the water for irrigation due to color and foul smell.
3	Ludhiana	Balloke-I	MCL	152.00	UASB	Functional		Not feasible	Dense urbanisation in vicinity of STP, farmers are reluctant to use treated water due to its dark colour and foul smell, no land available for sumpwell in STP.
4	Ludhiana	Balloke-II	MCL	105.00	SBR	Functional		Not feasible	Dense urbanisation in vicinity of STP, farmers are reluctant to use treated water due to its dark colour and foul smell, no land available for sumpwell in STP.
5	Jalandhar	Pholriwal-I	MCJ	100.00	UASB	Functional		Not feasible	Due to urbanization and increase in price of land, farmers are not giving consent

Sr. No.	District	Name of STP/ Town	Concerned Deptt.	Cap. (MLD)	Tech.	STP Status	Area (ha)	Fund Requirement (Rs in Lakh)	Remarks
6	Jalandhar	Pholriwal-II (Girdhari Lal)	MCJ	25.00	SBR	Functional		Not feasible	Due to urbanization and increase in price of land, farmers are not giving consent
7	Jalandhar	Pholriwal-III (Eco Chem)	MCJ	25.00	SBR	Functional		Not feasible	Due to urbanization and increase in price of land, farmers are not giving consent
8	Kapurthala	Phagwara-II (Hadibad)	PWSSB	8.00	MBBR	Functional		Not feasible	Sewerage Board has already laid pipeline.
9	Jalandhar	Phillaur-I	PWSSB	2.60	MBBR	Functional		Not feasible	STP to be re-constructed
10	Jalandhar	East Jalndhar Cantt-I	MES	3.00	MBBR	Functional		Not feasible	Agriculture land not available due to urbanisation
11	Jalandhar	East Jalndhar Cantt-II	MES	3.00	MBBR	Functional		Not feasible	Agriculture land not available due to urbanisation
12	Jalandhar	East Jalndhar Cantt-III	MES	0.40	MBBR	Functional		Not feasible	Agriculture land not available due to urbanisation
13	Jalandhar	West Jalandhar Cantt-I	MES	1.50	MBBR	Functional		Not feasible	Agriculture land not available due to urbanisation
14	Jalandhar	West Jalandhar Cantt-II	MES	1.50	MBBR	Functional		Not feasible	Agriculture land not available due to urbanisation
15	Ludhiana	Jamalpur	PWSSB	225.00	-	Functional		Not feasible	• STP is situated in highly dense populated area surrounded by residential area & dying industries. • Blind Pipeline of 6 Kms required. • Cycle Valley, National Highways, Tata Steel etc upcoming around STP. • farmers agrees to use this treated water only once or twice per year in their fields

Sr. No.	District	Name of STP/ Town	Concerned Deptt.	Cap. (MLD)	Tech.	STP Status	Area (ha)	Fund Requirement (Rs in Lakh)	Remarks
16	Ludhiana	Balloke	Balloke	60.00	-	Functional		Not feasible	Water coming in STP is from Industrial zone of Gill Road where most of the industries have works. The quality of treated water is not suitable.
17	Jalandhar	Pholriwal	PWSSB	50.00	-	Functional		Not feasible	Due to urbanization and increase in the cost of land farmers are not giving consent
				923.00					
Funding required for irrigation projects *									
1	SBS Nagar	Nawashahar	PWSSB	6.00	SBR	Functional		270.00	
2	SBS Nagar	Banga	PWSSB	3.00	SBR	Functional		135.00	
3	Rupnagar	Burari Nangal	PWSSB	5.00	ASP	Functional		225.00	
4	Ludhiana	Sahnewal	PWSSB	7.00	SBR	Functional		315.00	
5	Ludhiana	Jagraon-I	PWSSB	12.00	SBR	Functional		540.00	
6	Muktsar	Muktsar Sahib-III	DWSS	3.50	MBBR	Functional		157.50	
7	Rupnagar	Morinda	SBR	5.50	SBR	Functional		247.50	
8	Muktsar	Gidderbaha	PWSSB	7.00	MBBR	Functional		315.00	
9	Ferozepur	Ferozepur	SBR	18.00		Functional		810.00	
10	Faridkot	Jaito	PWSSB	6.00	SBR	Functional		270.00	
11	Faridkot	Kotakapura	PSIEC	3.00	MBBR	Functional		135.00	
12	Faridkot	Faridkot	PWSSB	14.00	-	Functional		630.00	
13	Jalandhar	Basti Peer Dad	MCJ	15.00	SBR	Functional		675.00	
14	SBS Nagar	Balachaur	PWSSB	4.00	-	Functional		180.00	
15	Tarn Taran	Patti	PWSSB	8.00		Functional		360.00	
16	SBS Nagar	Rahon	PWSSB	3.00		Functional		135.00	
17	Rupnagar	Kiratpur Sahib	PWSSB	2.00		Functional		90.00	
18	Ferozepur	Guru Har Sahai		1.00		STP Under Construction		45.00	
19	Ferozepur	Guru Har Sahai		4.00		STP Under Construction		180.00	
20	Ferozepur	Mamdot		2.00		STP Under Construction		90.00	
21	Ferozepur	Mudki		2.00		STP Under Construction		90.00	
22	Hoshiarpur	Mahilpur		3.00		STP Under Construction		135.00	
23	Bathinda	Maluka		1.00		STP Under Construction		45.00	

Sr. No.	District	Name of STP/ Town	Concerned Deptt.	Cap. (MLD)	Tech.	STP Status	Area (ha)	Fund Requirement (Rs in Lakh)	Remarks
24	Bathinda	Bhai Roopa		2.50		STP Under Construction		112.50	
25	Bathinda	Kotha Guru		2.00		STP Under Construction		90.00	
26	Muktsar	Muktsar Sahib		5.00		STP Under Construction		225.00	
27	Bathinda	Bhagta Bhaike		3.00		STP Under Construction		135.00	
28	Fazilka	Arniwala	PWSSB	2.00		STP proposed to be constructed		90.00	
29	Muktsar	Barriwala	PWSSB	2.00		STP proposed to be constructed		90.00	
30	Ferozepur	Mallanwala	PWSSB	4.00		STP proposed to be constructed		180.00	
31	Moga	Nihal Singh Wala	PWSSB	2.00		STP proposed to be constructed		90.00	
32	Ludhiana	Moga	PWSSB	30.00		STP proposed to be constructed		1350	
		Total		187.50				8437.50	

* Completion of project is subject to timely completion of STP, timely availability of funds, availability of agricultural command area, consent/willingness of farmers and project being feasible

Annexure 14 – Status of Online Monitoring System for Industries

Sr. No.	River	Name of Industry	District	Cap. (KLD)	Status of online continuous monitoring system
1.	Sutlej	Adhi Enterprises, B-XXIII- 2120/1, Textile Colony, Industrial Area-A, Ludhiana	Ludhiana	100	Installed & commissioned
2.	Sutlej	Awon Printers, St. No. 3, Baba Gajja Jain Colony, Near Moti Nagar, Ludhiana	Ludhiana	150	Installed & commissioned
3.	Sutlej	Azeez Fabrics Pvt. Ltd (Previously Gulab Industries Pvt. Ltd.), 251, Industrial Area- A, Ludhiana	Ludhiana	450	Installed & commissioned
4.	Sutlej	B.K Wools, 236/5, Industrial Area-A, Ludhiana	Ludhiana	50	Installed & commissioned
5.	Sutlej	Bharat Jiwan Dyeing Factory, 42, Industrial Area-A, Ludhiana	Ludhiana	100	Installed & commissioned
6.	Sutlej	Capital Dyeing Company, 176, Industrial Area-A, Ludhiana	Ludhiana	100	Installed & commissioned
7.	Sutlej	Christian Medical College and Hospital, Brown Road, Ludhiana	Ludhiana	400	Installed & commissioned
8.	Sutlej	Golu International 14-A, Industrial Area-A, Ludhiana	Ludhiana	120	Installed & commissioned
9.	Sutlej	H.C Dyeing Works, B-30, Plot No. 3595-96, Baba Deep Singh Nagar, Opp Truck Union, Bye Pass Road, Moti Nagar, Ludhiana	Ludhiana	400	Installed & commissioned
10.	Sutlej	Ishan Enterprises 887, Industrial Area-A, Ludhiana	Ludhiana	55	Installed & commissioned
11.	Sutlej	J.S Jain Dyeing Factory, Plot no. 26/6/2, Baba Gajja Jain Colony, Near Moti Nagar, Bye Pass Ludhiana	Ludhiana	140	Installed & commissioned
12.	Sutlej	Kansal Hosiery Exports, 279- 280-281, Industrial Area-A, Ludhiana	Ludhiana	100	Installed & commissioned
13.	Sutlej	Madan Dyeing & Finishing Factory J-1, Textile Colony, Industrial Area-A, Ludhiana	Ludhiana	250	Installed & commissioned
14.	Sutlej	Malhotra Dyeing Kuldeep Nagar, Jalandhar Road, Ludhiana	Ludhiana	550	Installed & commissioned
15.	Sutlej	National Scientific Dyers, 37, Industrial Area-A, Ludhiana	Ludhiana	300	Installed & commissioned
16.	Sutlej	Natraj Scientific Dyers Opp. Aman Dharam Kanda, Link Road, Industrial Area-A, Ludhiana	Ludhiana	200	Installed & commissioned
17.	Sutlej	Om Processors Pvt. Ltd. K-3, Textile Colony, Industrial Area- A Ludhiana	Ludhiana	700	Installed & commissioned
18.	Sutlej	Oriental Knitfab Pvt. Ltd. 278, Industrial Area-A, Ludhiana	Ludhiana	225	Installed & commissioned
19.	Sutlej	Oriental Textile Processing Company Private Limited Samrala Chowk, Industrial Area-A, Ludhiana	Ludhiana	900	Installed & commissioned

Sr. No.	River	Name of Industry	District	Cap. (KLD)	Status of online continuous monitoring system
20.	Sutlej	Pawan Lakshmi Processors 35-36 B, Textile Colony, Industrial Area-A Ludhiana	Ludhiana	90	Installed & commissioned
21.	Sutlej	Perfect Dyeing & Finishing Industries97-C, Industrial Area- A Ludhiana	Ludhiana	240	Installed & commissioned
22.	Sutlej	Pritam Sci. Dyers16-A, Industrial Area-A, Ludhiana	Ludhiana	285	Installed & commissioned
23.	Sutlej	Punjabi Dyeing, 367, Industrial Area-A, Ludhiana	Ludhiana	250	Installed & commissioned
24.	Sutlej	R.P Processors848/11, Industrial Area-A, Ludhiana	Ludhiana	250	Installed & commissioned
25.	Sutlej	Ramal Dyeing, Jalandhar Bye Pass, Opp. Shakti Nagar, Ludhiana	Ludhiana	350	Installed & commissioned
26.	Sutlej	Rampal Sci.Dyers216, Industrial Area-A, Ludhiana	Ludhiana	100	Installed & commissioned
27.	Sutlej	Sagar ApparelsB-XXX-2586/87, Baba Gajja Jain Colony, Moti Nagar Ludhiana	Ludhiana	270	Installed & commissioned
28.	Sutlej	Sanjeev Dyeing Works, 1004/9, Circular Road, Ludhiana	Ludhiana	500	Installed & commissioned
29.	Sutlej	Swaastik Scientific Dyers (Previously Mahadev Dyeing & M/s Satyam Sci Dyers) D-4, Textile Colony, Industrial Area-A, Ludhiana	Ludhiana	130	Installed & commissioned
30.	Sutlej	Sun Shine Dyeing Pvt. Ltd.261, Industrial Area-A, Ludhiana	Ludhiana	432	Installed & commissioned
31.	Sutlej	United Breveries Ltd., C-60, Phase-3, Focal Point, Ludhiana	Ludhiana	196	Installed & commissioned
32.	Sutlej	Nahar Spinning Mills Ltd, Dhandari Kalan, Focal Point, Ludhiana	Ludhiana	2650	Installed & commissioned
33.	Sutlej	Eveline International, G.T Road, Dhandari Kalan, Ludhiana	Ludhiana	750	Installed & commissioned
34.	Sutlej	Garg Acrylics Ltd, Kanganwal Road, G.T Road, Ludhiana	Ludhiana	900	Installed & commissioned
35.	Sutlej	Ludhiana Beverage Pvt Ltd, 185 G.T. Road, Ludhiana	Ludhiana	500	Installed & commissioned
36.	Sutlej	Monte Carlo Fashion Ltd of M/s Oswal Woollen Mill Unit-5, b- XXIX-106, G.T. Road, Sherpur, Ludhiana	Ludhiana	180	Installed & commissioned
37.	Sutlej	Oswal Woollen Mills Ltd Unit-3, 105-BXXIX, G.T Road Sherpur, Ludhiana	Ludhiana	3800	Installed & commissioned
38.	Sutlej	Sharman Woollen Mills Ltd, VPO Jugiana, Ludhiana	Ludhiana	175	Installed & Commissioned
39.	Sutlej	Aadi Knit Fab, 559/4, Kali Sarak, Near Jalandhar Bye Pass, Ludhiana.	Ludhiana	110	Installed & commissioned

Sr. No.	River	Name of Industry	District	Cap. (KLD)	Status of online continuous monitoring system
40.	Sutlej	Friends Printers, E-10/4091, Banda Bahadur Nagar, Bahadur Ke Road, Ludhiana	Ludhiana	135	Installed & commissioned
41.	Sutlej	Grace Tubler, Gali No. 7, Banda Bahadur Nagar, Bahadurke Road, Ludhiana	Ludhiana	80	Installed & commissioned
42.	Sutlej	Krishna Print & Processors, E/10/3925, St. No. 6, Banda Bahadur Nagar, Bahadur Ke Road, Ludhiana	Ludhiana	0	Installed & commissioned
43.	Sutlej	The Ludhiana Distt. Co-op., Milk Producers Union Ltd., Verka Milk Plant Ferozepur Road, Ludhiana.	Ludhiana	400	Installed & commissioned
44.	Sutlej	Vardhman Spinning & General Mills., Chandigarh Road, Ludhiana	Ludhiana	2000	Installed & commissioned
ppp 45.	Sutlej	Sahib Synthetics, G.T Road, Vill. Bhora (West), Ludhiana.	Ludhiana	220	Installed & commissioned
46.	Sutlej	Nageshwar Printers, New Bhagwan dass Road, Mohalla Anandpura, Basti Jodhewal, Ludhiana.	Ludhiana	100	Installed & commissioned
47.	Sutlej	Venus Cotsyn India Ltd, G.T. Road, Near Jalandhar Bye Pass, Ludhiana.	Ludhiana	1845	Installed & commissioned
48.	Sutlej	MahaLuxmi Processing House Pvt. Ltd. C-231, Phase-VIII, Focal Point, Ludhiana	Ludhiana	2000	Installed & commissioned
49.	Sutlej	Supreme Agro Foods Pvt. Ltd. (Unit-II) C-181, Phase-VI, Focal Point, Ludhiana	Ludhiana	200	Installed & commissioned
50.	Sutlej	Vardhman Yarn & Thread Ltd., (Previously Known as Mahavir Spinning Mills Ltd., (S.Tread U D-295/2, Phase-8, Focal Point, Ludhiana	Ludhiana	550	Installed & commissioned
51.	Sutlej	WAHID SANDHAR SUGARS LTD., G.T. ROAD, PHAGWARA, DISTT. KAPURTHALA	Kapurthala	1240 (TE) 40 (DE)	Installed & commissioned
52.	Sutlej	Common Effluent Treatment Plant Leather Complex, Jalandhar	Jalandhar	5000	Installed & commissioned
53.	Sutlej	JCT LTD, G.T ROAD PHAGWARA	Kapurthala	5146 (TE) 1909 (DE)	Installed & commissioned
54.	Sutlej	SHITAL FIBRES LTD,A-17, FOCAL POINT EXTN., JALANDHAR	Jalandhar	360 (TE) 4 (DE)	Installed & commissioned
55.	Sutlej	SUKHJIT STARCH LTD., PHAGWARA, DISTT. KAPURTHALA.	Kapurthala	1500 (TE) 21 (DE)	Installed & commissioned
56.	Sutlej	THE DOABA CO-OPERATIVE MILK PRODUCERS UNION LTD, G.T Road, Bye Pass Jalandhar	Jalandhar	490 (TE) 15 (DE)	Installed & commissioned
57.	Sutlej	Cremica Food Industries Ltd, (Previously Known as BECTOR'S FOOD SPECIALITIES LTD. UNIT II, THEING ROAD, PHILLAU. DISTT. JALANDHAR.	Jalandhar	200 (TE) 50 (DE)	Installed & commissioned

Sr. No.	River	Name of Industry	District	Cap. (KLD)	Status of online continuous monitoring system
58.	Sutlej	M/s Metro milk products pvt.ltd. C-44, sports and surgical complex Jalandhar	Jalandhar	200 (TE) 1.5 (DE)	Installed & commissioned
59.	Sutlej	Nestle India Private Ltd., Ferozepur Road, Duneke, Moga	Moga	3360	Installed & commissioned
60.	Sutlej	THE NAWANSHAHAR CO- OPERATIVE SUGAR MILLS LTD, BANGA ROAD, NAWANSHAHR	Nawanshahr	1100	Installed & commissioned
61.	Sutlej	Shreyans Industries Ltd., Balachaur Ropar Road, Vill. Banah, Nawanshahr.	Nawanshahr	5700	Installed & commissioned
62.	Sutlej	Sun Pharmaceuticals Industries Pvt Ltd., Village Toansa, Tehsil balachour, Distt. S.B.S. Nagar.	Nawanshahr	300	Installed & commissioned
63.	Sutlej	Centrient Pharmaceuticals India Private Limited, Village Toansa , Tehsil Balachaur, SBS Nagar.	Nawanshahr	425	Installed & commissioned
64.	Sutlej	S.E.L Manufacturing Co. Ltd Unit I, Vill Hussainpur, Rahon Machiwarra Road, Nawanshahr.	Nawanshahr	1655	Installed & commissioned
65.	Sutlej	S.E.L Manufacturing Co. Ltd Unit II, Vill Hussainpur, Rahon Machiwarra Road, Nawanshahr.	Nawanshahr	4125	Installed & commissioned
66.	Sutlej	SML ISUZU, Vill. Asron, Balachaur, Distt. Shaheed Bhagat Singh Nagar.	Nawanshahr	90	Installed & commissioned

Annexure 15 - Performa for Operational Record of the STPs

Location of TP	Capacity of STP (MLD)	Reading of Water/ Energy meter at 8 am	Quantity of waste water treated (in MLD)	Sludge wasted (kg/day)	Qty. of Chlorine used (Kg/day)	Name of the component remained out of order during the day and reasons thereof.	Qty of treated w/w reused for irrigation of agricultural land/ irrigation of green area/ construction purpose (MLD)	Ultimate disposal of treated waste water (MLD) in river/drain	Name of drain/ river

Annexure 16 - Performa for Operational Record of the CETPs

Location of CETP	Capacity of CETP (MLD)	Reading of Water/ Energy meter at 8 am	Quantity of waste water treated (in MLD)	Sludge wasted (kg/day)	Details of chemical used for dosing purpose and the component at which the same was imparted.	Name of the component remained out of order during the day and reasons thereof.	Qty of treated w/w reused for irrigation of agricultural land/ irrigation of green area/construction purpose (MLD)	Ultimate disposal of treated waste water (MLD) in river/drain	Name of drain/ river

Annexure 17 - Performa for keeping record of STPs

r. No.	Name of Town & Location	Departm ent responsi ble for O&M	Capacity (MLD)	Date of Commis sioning	Design Parameters		Discharge Standards to be achieved (PPCB)	Compliance of Discharge Standards (Yes/No)	Reasons for Non-Compliance										Operator Payment Cleared upto Month/ Yr	Outstanding Payment
					Inlet	Outlet			Lack of O&M Funds	Technology Related	Inadequate STP Capacity	Mixing with Industrial effluents	Mixing with Dairy Waste	Component breakdown	Non availability of Power	Non availability of Chlorine	Lack of skilled manpower	Any other reason		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

Annexure 18 - Performa for keeping record of Analysis Result of CETPs

Date of Sampling	Point of sampling	Values of the parameters in mg/l except pH						Sample Status (Pass/Fail) as per Norms
		pH	TSS	BOD	COD	T.Coli (MPN/100 ml)	Metals	

Annexure 19 - Proforma regarding monitoring of Industries located in Catchment Area

ame of industry	Date of visit	Capacity	Discharge (KLD)	Compliant/ non-compliant (parameters not complying)	% variation in case of non-compliance	Observations noticed during visit	Action Taken in case of Non-compliant

Annexure 20 - Proforma for monitoring of Water Quality of River Sutlej

r. No.	Sampling points at river Sutlej	Date of Sampling	DO (mg/l)	pH	BOD (mg/l)	T.Coliform (MPN/100 ml)	D.B.U. classification

Annexure 21 - Proforma for submission of report regarding Health Check Camps

Sr. No.	Location of the camp	Date on which camp was organized	Name of the Doctor(s) & name of their organization	No. of people examined	No. of people found affected with water borne disease

Annexure 22- Proforma for submission of report regarding Awareness Programmes

Sr. No.	City / Town / Location where the awareness programme is organized	Name of the Officer(s) who hold this programme	Date	No. of participants	Brief detail about awareness detail