



PUNJAB POLLUTION CONTROL BOARD

ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਕੰਟਰੋਲ ਬੋਰਡ

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No.....423.....

Dated...18-11-2021

To

The Director,
Directorate of Environment and Climate Change (DECC),
Department of Science Technology & Environment, Govt. of Punjab.
MIGSIA Complex, Sector-26, Chandigarh-160019.

Sub:- Regarding Preparation & Submission of modified District Environment Plan in compliance of Hon'ble NGT order dated 26.09.2019 in the OA no.360/2018 titled as Shree Nath Vs Union of India & others - District Kapurthala.

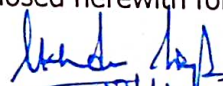
Ref:- NGT Monitoring Committee office letter endst.no. CMC/2021/447 dated 17.11.2021.

It is intimated that earlier revised District Environment Plan (DEP) of District Kapurthala was prepared in consultation with the stakeholder departments and sent to Director, Directorate of Environment & Climate Change, Chandigarh.

Thereafter, a meeting was taken by the Monitoring Committee on 16.11.2021 in the office of Monitoring Committee, Forest Complex, Sector-68, SAS Nagar to review the District Environment Plan of District Kapurthala. There were certain suggestions/amendments which were suggested by the Committee and required to be incorporated in the District Environment Plan.

Now, all the suggestions/amendments have been incorporated in the District Environment Plan of District Kapurthala and same is enclosed herewith for taking further necessary action at your end, please.

DA/As above

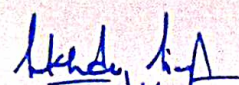

Environmental Engineer
Regional Office-II, Jalandhar

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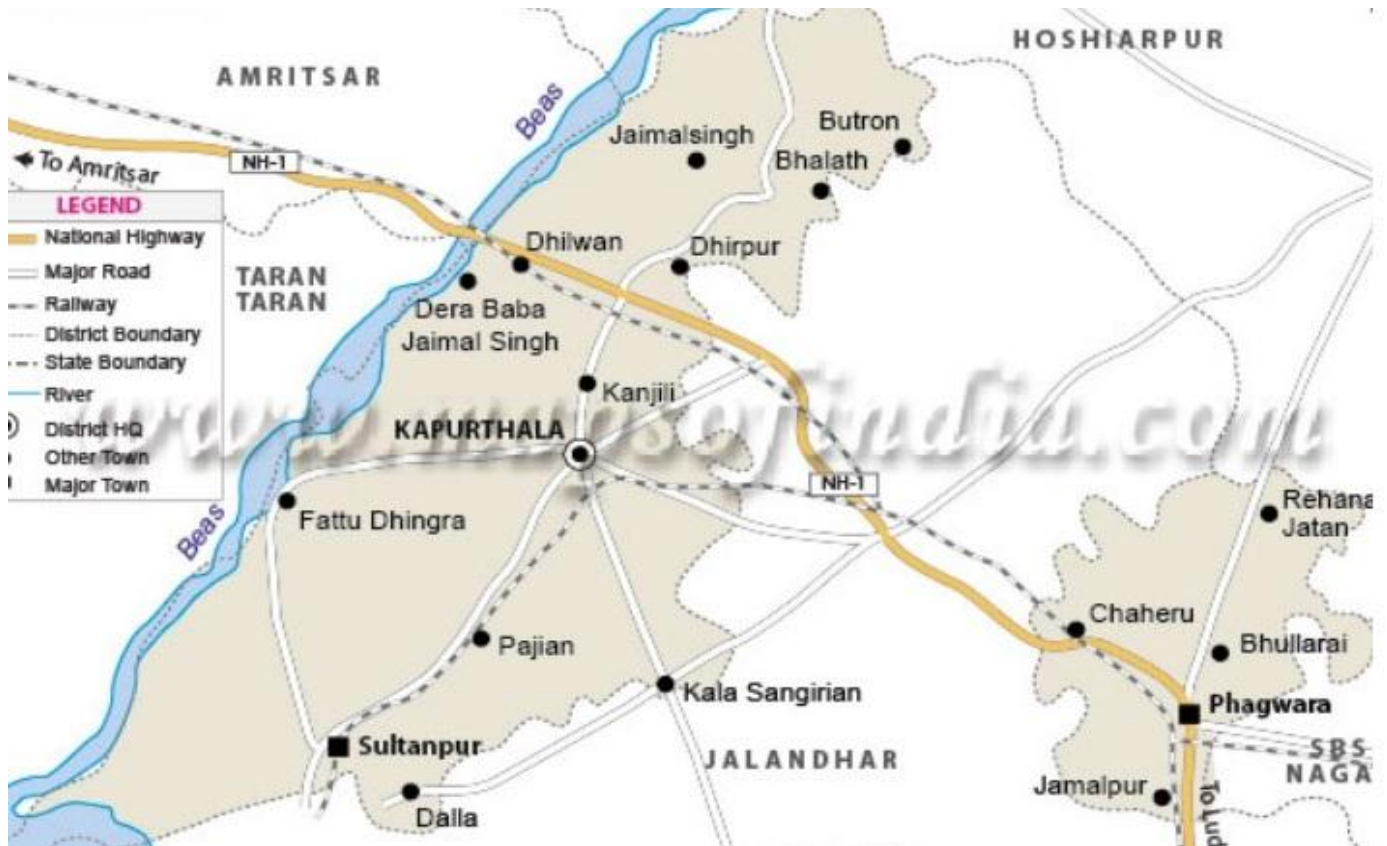
Dated...18-11-2021

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

1. Dr. Babu Ram, Technical Expert, Monitoring Committee, SAS Nagar.
2. Deputy Commissioner, Kapurthala.
3. Member Secretary, Punjab Pollutions Control Board, Head Office, Patiala.
4. Environmental Engineer (Computer), Punjab Pollution Control Board, Head Office Patiala with the request to upload the DEP on the official website of Punjab Pollution Control Board.


Environmental Engineer
Regional Office-II, Jalandhar.

District Environment Plan for Kapurthala, Punjab



District Administration - Kapurthala



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DISTRICT PROFILE

The District Kapurthala, known as city of Palaces & Gardens, is considered to be one of the smallest district of Punjab both in terms of area & population. The secular and aesthetic mix of the city with its prominent buildings based on French and Indo- Saracenic architecture self-narrate its princely past. The district is divided into two non-contiguous parts namely

a) Main Kapurthala - Sultanpur Lodhi Portion:

The Kapurthala-Sultanpur Lodhi part lies between north latitude 31° 07' and 31° 22' and east longitude 75° 36'. In the north it is bounded by Hoshiarpur, Kapurthala, and Amritsar districts, in the west by the Beas River and Amritsar and Tarntaran district, and in south by the Sutlej River, Jalandhar district, and Hoshiarpur district.

b) Phagwara Tehsil or Block:

Phagwara tehsil lies between north latitude 31° 22' and east longitude 75° 40' and 75° 55'. Phagwara lies on the National Highway No. 1 and the tehsil is much more industrially developed than remaining Kapurthala district. Phagwara is situated at a distance of 19 kilometers southwest of Jalandhar and the tehsil is bounded on all sides by Jalandhar District except in the northeast, where it is bounded by Hoshiarpur district and Shaheed Bhagat Singh Nagar.

The economy of the district is still predominantly agricultural. The total area of the District is 1633 Km². The major portion of Kapurthala district lies between the Beas River and the Kali-Bein River and is called the 'BET' area.

According to the 2011 census Kapurthala district has a population of 8,17,668. This gives it a ranking of 481st out of total 640 districts in India. The district has population density of 501 inhabitants per square kilometre. Its population growth rate over the decade 2001- 2011 was 8.37%. District Kapurthala has a sex ratio of 912 females for every 1000 males and a literacy rate of 80.2%.



The District Kapurthala has four subdivisions/tehsils details of which are tabulated below:

| Sr. No. | Tehsil | Area(Km ²) | Population (2011) | No.of Villages |
|---------|----------------|------------------------|-------------------|----------------|
| 1 | Kapurthala | 657 | 3,41,631 | 245 |
| 2 | Phagwara | 297 | 2,47,367 | 106 |
| 3 | SultanpurLodhi | 445 | 1,21,816 | 181 |
| 4 | Bholath | 235 | 1,04,354 | 100 |

MASTER PLAN OF VARIOUS TOWN:-

The master plan of Kapurthala & Phagwara has been finalized and notified by the country & Town planning Department, Punjab. Further, the Country & Town Planning Department, Punjab is in the process of finalizing the master plans of other cities for the systematic growth of the cities.

WILDLIFE SANCTUARIES:-

There is no wildlife sanctuary in the district.

WET LAND:-

Kanjali wet land has been developed across the Holy Bein and is located in Kapurthala. The wet land has rich biodiversity comprising of aquatics, flora & fauna including some important species of plants & animals. Kanjali lake is included in the list of Wet Lands of International Importance as per Ramsar Convention 2002.

CLIMATE: -

There are mainly two seasons i.e. summer and winter. The summer season falls between the months of April to July and the winter November to March. In summer season the temperature touches 44

°C and sometimes higher. June is the hottest month and January is the coldest one. Mostly the rain falls in the month of July. The winter rains are experienced during January and February. Dust storm occurs in the month of May and June.

RAINFALL:-

The south-west monsoon generally arrives in the first week of July and continues up to the end of August. Seventy percent of the rainfall occurs during this period.

ECOLOGY:-

The changes in ecology system are inevitable, consequences of development process. The denudation of forests due to increasing population, urbanization industrialization has accelerated the process of environmental degradation in the district. Therefore, preservation of the ecology is one of the most important goals of the district planning. 30 The vegetation varies in the district depending on the soil, topography and elevation. In the plain, large scale of afforestation has been under taken by the forest department. Where water facilities are available, Shisham, mulberry, eucalyptus and poplar are being planted. In the Kallar area, kinkar prosopis and eucalyptus has been planted. Besides mango and mulberry, other fruit trees cultivated in the district include orange, Kinnow, lemon tree and others.

HYDROLOGY:-

The ground water in this region is suitable for irrigational and domestic uses. The sub soil water depth ranges from 5 to 8 metres in most part of the district. Due to Dhusi bandh and stepped floods the water table has gone very low.

SOILS:-

The soils are loamy with a clay content below 7.5 to 8.5 percent. They contain small quantities of lime but the magnesium content is high. They are well supplied in potash and phosphoric acid but the quantities available are low. The agriculture is dependent to a large extent on the nature of its soils which in turn, is influenced materially by climatic factors. The soil of the district is quite alluvial and fertile. 31 The district consists of 5 kinds of soils viz, Bet, Loamy, Sandy, Sierozems and Sodic & Saline soil. The area falls near Beas River is called Bet and Sandy. The area of Phagwara and Central part of Kapurthala District is called Loamy soil. The western Parts of Kapurthala District cover with Sierozems soil. The Sultanpur Lodhi Tehsil and South Western part of District Kapurthala have un-cultivated Moderately to severely Sodic & Sline soil which are water logged pockets.

MINERALS:-

The sand is found from the River bed of the Beas river and outside river Beas Bed due to flood situation in rainy season.

GROUND WATER SCENARIO:-

Central Ground Water Authority has been constituted under Section 3 (3) of the Environmental (Protection) Act, 1986 to regulate and control development and management of ground water resources in the country.

The annual replenish able ground water resources availability plays an important role in defining the guidelines. The latest assessment of the state wise ground water resources is available at the Central Ground Water Board web site (www.cgwb.gov.in). As per the latest data available on the CGWB website, following blocks of District Kapurthala has been notified for control and regulation in Ground Water.

| Sr. No. | Place/block/Mandal/Taluka | DateofNotification |
|---------|---------------------------|--------------------|
| 1. | Kapurthala | 27/11/2012 |
| 2. | Dhilwan | 27/11/2012 |
| 3. | SultanpurLodhi | 27/11/2012 |
| 4. | Bholath/Nadala | 27/11/2012 |

In the above notified areas, following guidelines are applicable:

- a. Permission to abstract ground water through any energized means will not be accorded for any purpose other than drinking water.
- b. Drinking purpose.

The Punjab Pollution Control Board has decided that the Board shall continue to grant consent to establish (NOC) / consent to operate to the industries with the advisory to obtain necessary clearance for abstraction of ground water from the Punjab Water Regulation & Development Authority (PWRDA). However, aforesaid clearance shall not be insisted upon by the Punjab Pollution Control Board at the time of grant of consent to establish (NOC) / consent to operate to the industries

Local Institutions

In District Kapurthala, there are total 4 tehsils, & 02 Municipal Corporation. There are 07 Sub-Tehsil, 01 Municipal Council and 4 Nagar Panchayat. There are total 632 Villages in the District & have 546 Gram Panchayats.

Natural Resources

- **Water Bodies**

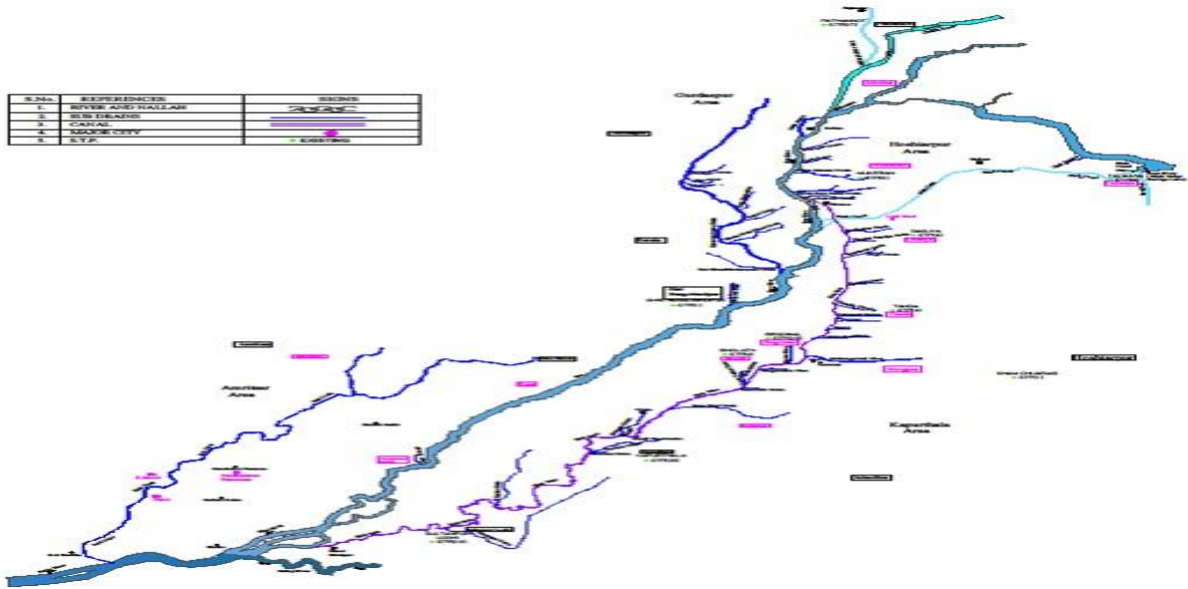
- **HOLY BEIN / KALI BEIN**

Holy Bein (Kali Bein) is major drain passing through Distt. Kapurthala. The Holy Bein (Earlier named as Kali Bein) got its importance in year 1499 which Sh. Guru Nanak Dev Ji received his enlightenment when remained for 3 days in said Bein & disclosed mool mantra in sultapur Lodhi. This drain originates from spring (Bhouli) in Village Dhanoa, Tehsil Dasuya, Distt. Hoshiarpur with stretch of 160 Km merges with River Beas at Hari ke Pattan. The flow in the Holy Bein is about 500 cusecs including fresh water @ 200 to 250 cusec from Mukerian Hydeal Channel. The major stretch of Holy Bein is in Distt. Kapurthala and major towns of Distt. Kapurthala on the bank of Bein are Kapurthala, Sultanpur Lodhi, Begowal, Bholath with their disposal of waste water into Bein alongwith disposal of waste water from villages mainly Village Rawal & 27 nos. Colonies.

Total 50 no. villages were identified discharging waste water into Holy Bein. Out of these in 41 no. villages ponds alongwith irrigation network system provided and in remaining 09 no. villages ponds are yet to be provided to stop discharge of waste water into Holy Bein.

Drains entering into Holy Bein / Kali Bein are as under:-

| Sr. No. | Name of Drain | Waste Water carried by the drain |
|----------------|-------------------------|--|
| 1. | Begowal Drain | Waste water of N.P. Begowal |
| 2. | Raipurpeer Bakash Drain | Waste water of Bhadas drain & waste water of N.P. Bholath |
| 3. | Ramgarh Drain | Waste water of Village Littan. |
| 4. | Wadala Drain | Waste water of Village Dadupur, Daburji, Kadupur & M.C. Kapurthala |
| 5. | Bhulana Drain | Waste water of Village Rawal & 27 no. colonies. |
| 6. | Sultanpur Drain | Waste water of M.C. Sultanpur Lodhi |



- PHAGWARA DRAIN:

Phagwara drain with stretch of 14 Km merges with East Bein at Village Kukkar Pind. This drain carries waste water of Phagwara town & Colonies developed around the M/s Lovely Professional University with discharge approx. 50 MLD ultimately leads to Sutlej River through East Bein.

• Availability of Water Resources

Central Ground Water Authority has been constituted under Section 3 (3) of the Environmental (Protection) Act, 1986 to regulate and control development and management of ground water resources in the country.

The annual replenish able ground water resources availability plays an important role in defining the guidelines. The latest assessment of the state wise ground water resources is available at the Central Ground Water Board web site (www.cgwb.gov.in). As per the latest data available on the CGWB website, following blocks of Distt Kapurthala has been notified for control and regulation in Ground Water.

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• **Forest Coverage**

There are 8 open forests and 2 Moderate Dense Forests in District Kapurthala. There is no very dense forest in Distt. Kapurthala. Only 0.38% of total gross area of Distt. Kapurthala is covered under Forests.

• **Geography & Demography**

The topography of the Jalandhar is typical representative of an Alluvial plain, it owes its origin to the aggravation work of the Beas River. The alluvium deposited by the river has been worked over by the wind which gave rise to a number of small dunes and sand mounds. Most of these dunes have been leveled by the brave hard-working agriculturists of the district.

District Kapurthala can be divided into two distinct regions namely Kapurthala-Sultanpur Lodhi tract and the regions which comprise Phagwara Tehsil of the District. A detailed study regarding physical and geographical conditions of these regions is given in the following paragraphs.

Kapurthala-Sultanpur Lodhi Region:

This region comprises the Tehsils of Kapurthala and Sultanpur Lodhi. The major portion of this region lies in the river tract falling between the Beas and Black Bein and is called 'BET'. The area is frequently flooded during the rainy season. A flood protection 'Bund' namely the 'Dhusi Bandh' has been constructed along the left bank of the river Beas and along the Black Bein from Sultanpur Lodhi onwards. It has saved the area from the ravages of floods. Paddy, wheat and sugarcane are the principal crops of this area. Waterlogging and alkaline salts [Kallar] are a great handicap for cultivation. The major portion of the region has officially been declared backward. To the south of the Black Bein lies the tract known as 'Dona'. The word 'Dona' means that the

soil is formed of two constituents, sand and clay, with sand predominating. Wheat and Paddy are the principal products of this area.

The common trees found in the area are Kikar, Shisham, Poplar and Eucalyptus. Sultanpur Lodhi Tehsil is known for its palm trees. Mango trees are found in abundance in the area bordering Hoshiarpur District. Among the common shrubs found in the 'Bet' area are Leh, Jhau, Plichhi, and Bla atc. Among the aquatic plants, the more important are Ajal, Karali and Bhalu. Sarkanda and Kahi are useful reeds found in the riverain tract. Kans is found in sandy soil.

Phagwara Region:

The Phagwara region consists of the Sirwal, Dhak and Manjki tracts lying roughly in the North-East, middle and South-East of the tehsils. Sirwal possesses the characteristics of the 'Bet'; the numerous hill streams coming down from Hoshiarpur District keep the soil moist all the year round. Some of these streams are silt laden and at first deposit fertile soil though their later deposits are more and more sandy. Due to the existence of these drainage channels patches and stratas of hard clay are also to be found. Vegetables are grown in abundance in this area. the principal crops are wheat and sugarcane and paddy.

Land-Use Pattern

The master plan of Kapurthala has not been notified by the country & Town planning Department, Punjab. Further, the Country & Town Planning Department, Punjab.

Climate

There are mainly two seasons i.e. summer and winter. The summer season falls between the months of April to July and the winter November to March. In summer season the temperature touches 44 °C and sometimes higher. June is the hottest month and January is the coldest one. Mostly the rain falls in the month of July. The winter rains are experienced during January and February.

ACTION PLAN

1. WASTE MANAGEMENT PLAN

(i) Solid Waste Management

a. Current Status Related to Solid Waste Management

| Sr. No. | Urban Local Bodies | Population | Solid Waste Generated (MT per day) |
|---------|------------------------------------|-----------------|------------------------------------|
| 1. | Municipal Corporation, Kapurthala | 98,914 | 87 |
| 2. | Municipal Corporation, Phagwara | 97,864 | 80 |
| 3. | Nagar Panchayat, Begowal | 10,116 | 1.5 |
| 4. | Nagar Panchayat, Bholath | 10,548 | 1.70 |
| 5. | Municipal Council, Sultanpur Lodhi | 16,822 | 4.00 |
| 6. | Nagar Panchayat, Nadala | 7,742 | 0.75 |
| 7. | Nagar Panchayat, Dhilwan | 8,157 | 1.5 |
| | Total | 2,50,163 | 176.45 |

| Sr. No. | Local Bodies | No of Village Panchayats /Blocks | No of House holds | Population | Solid Waste Generated per day (MT) |
|---------|---------------------------|----------------------------------|-------------------|------------|------------------------------------|
| 1. | No of Villages Panchayats | 546 | 244532 | 1275038 | 387 |

b. Identification of Gaps and Action Plan:

| Sr.N | Action points For villages / blocks / town municipalities / City corporations | Identification of gap | Action Plan | Responsible agencies | Timeline for completion of action plan |
|-------------|---|------------------------------|--|----------------------|--|
| 1. | Segregation | | | | |
| I. | MC, Kapurthala | Achievement-85% Gap – 15% | To achieve 100% segregation, following measures will be taken: ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised rehris to the workers. ✓ By imparting to the waste collected workers | MC Kapurthala | 31.03.2022 |
| II. | MC Phagwara | Achievement-40% Gap – 60% | To achieve 100% segregation, following measures will be taken: ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised rehris to the workers. ✓ By imparting to the waste collected workers | MC Phagwara | 31.08.2022 |
| III. | NP Bholath | Achievement-82% Gap – 18% | To achieve 100% segregation, following measures will be taken: ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised rehris to the workers. ✓ By imparting training to the waste collected workers | NP Bholath | 31.03.2022 |
| IV. | NP, Begowal | Achievement-95% Gap – 05% | To achieve 100% segregation, following measures will be taken: ✓ Public awareness by holding ward wise camps. | NP, Begowal | 31.03.2022 |

| | | | | | |
|-------------|--------------------|------------------------------|---|--------------------|------------|
| | | | <ul style="list-style-type: none"> ✓ IEC activities. ✓ By providing compartmentalised rehri to the workers. ✓ By imparting training to the waste collected workers | | |
| V. | MC Sultanpur Lodhi | Achievement-100% Gap-Nill | <p>To achieve 100% segregation, following measures will be taken:</p> <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised rehri to the workers. ✓ By imparting training to the waste collected workers | MC Sultanpur Lodhi | 31.03.2022 |
| VI. | NP Nadala | Achievement-88% Gap – 12% | <p>To achieve 100% segregation, following measures will be taken:</p> <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised rehri to the workers. ✓ By imparting to the waste collected workers. | NP Nadala | 31.03.2022 |
| VII. | NP Dhillwan | Achievement-85% Gap – 15% | <p>To achieve 100% segregation, following measures will be taken:</p> <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised rehri to the workers. ✓ By imparting to the waste collected workers | NP Dhillwan | 31.03.2022 |

| | | | | | |
|----------------------------|---------------------------------------|--|--|------------------------------|---|
| VIII. | Cantonment Board, Kapurthala | Achievement-100% Gap – Nil | To maintain 100 % segregation all the times | Cantonment Board, Kapurthala | Regular activity |
| IX. | Villages of District Kapurthala (546) | Segregation not be carried out in villages | Yet to prepare. | DDPO | Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| 2 Sweeping | | | | | |
| (i) Manual Sweeping | | | | | |
| I. | MC, Kapurtala | Achievement - 100 % Gap: Nil | To maintain 100 % sweeping all the times | MC, Kapurtala | Regular activity |
| II. | MC, Phagwara | Achievement - 85% Gap: 15% | To maintain 100 % sweeping all the times | MC, Phagwara | 31.08.2022 |
| III. | NP, Bholath | Achievement - 100 % Gap: Nil | To maintain 100 % sweeping all the times | NP, Bholath | Regular activity |
| IV. | NP Begowal | Achievement - 100 % Gap: Nil | To maintain 100 % sweeping all the times | NP Begowal | Regular activity |
| V. | MC Sultanpur Lodhi | Achievement - 100 % Gap: Nil | To maintain 100 % sweeping all the times | MC Sultanpur Lodhi | Regular activity |
| VI. | NP Nadala | Achievement - 100 % Gap: Nil | To maintain 100 % sweeping all the times | NP Nadala | Regular activity |
| VII. | NP Dhilwan | Achievement - 100 % Gap: Nil | To maintain 100 % sweeping all the times | NP Dhilwan | Regular activity |
| VIII. | Cantonment Board, Kapurthala | Achievement - 100 % Gap: Nil | To maintain 100 % sweeping all the times | Cantonment Board, Kapurthala | Regular activity |
| (ii) | Mechanical Road Sweeping & Collection | <ul style="list-style-type: none"> MC Kapurthala had Proposed to purchase. MC Phagwara Proposed to purchase. | MC Kapurthala & Phagwara has proposed to purchase mechanical sweeping machine by 31.12.2021. | MC Kapurthala and Phagwara | 31.12.2021 |
| (iii) | Villages Panchayat (546) | Gap- 100% | More manpower is being deployed to ensure 100 % sweeping | DDPO | Preparation of action plan - 31.03.2022 Implementation – |

| | | | | | |
|----------|---|---|--|--|---|
| | | | | | 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| 3 | Waste Collection | | | | |
| (i) | 100% collection of solid waste | <ul style="list-style-type: none"> 100% D to D is achieved by all MCs/NPs Village panchayats = Not adequate | <ul style="list-style-type: none"> To maintain 100% D to D by ULBs Action plan is yet to be prepared | <ul style="list-style-type: none"> ULBs DDPO | <ul style="list-style-type: none"> Regular activity Preparation of action plan - 31.03.2022 Implementation - 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| (ii) | Arrangement for door to door collection | <ul style="list-style-type: none"> No. of Wards/ No. of tractor trolleys/ No. of Tata Ace/ No. of Rickshaw Rehri Kapurthala: 50/05/ 0/125 Phagwara: 50/5/0/190 Bholath: 13/1/1/13 Begowal:13/1/0/9 Sultanpur: 13/01/2/13 Nadala:11/1/0/11 Dhilwan : 11/01/0/8 Cantonment Board: 01/10 Village Panchayats (546) = Not adequate | <ul style="list-style-type: none"> As per requirement, manpower and mechanical arrangements will be increased to ensure 100% D to D collection. Action plan is yet to be prepared for arrangements of D to D collection. | <ul style="list-style-type: none"> ULBs DDPO | <ul style="list-style-type: none"> Activity Completed Preparation of action plan - 31.03.2022 Implementation - 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - |

| | | | | | |
|-------|--|--|---|------------------|--|
| | | | | | 150 VPs By 30.06.2025 - 96 VPs |
| (iii) | Waste Collection trolleys with separate Compartments | <ul style="list-style-type: none"> Tractor Trolleys provided with compartments Required/ Available Kapurthala 05/4 Phagwara: 05/0 Bholath:: 1/0 Begowal 1/0 Sultanpur: 1/1 Nadala: 1/0 Dhilwan: 1/0 Cantonment Board 1/0 <ul style="list-style-type: none"> In villages Required – 546 Available - Nil | As per requirement, waste collection trolleys will be increased to ensure 100% D to D collection and segregation. Action plan is yet to be prepared for arrangements of D to D collection. | ULBs DDPO | 31.08.2022 Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 160 VPs |
| - | Mini Collection Trucks with separate compartments | <p>ULB: Requirement/ Available</p> <ul style="list-style-type: none"> Kapurthala 02/2 Phagwara: 10/0 Bholath:: 0/0 Begowal 0/0 Sultanpur: 0/0 Nadala: 0/0 Dhilwan: 0/0 Cantonment Board 0/0 <p>In villages – not adequate</p> | As per requirement, waste collection trucks will be increased to ensure 100% D to D collection and segregation. In villages – Action plan is yet to be prepare. | ULBs DDPO | 31.08.2022 Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |

| (v) Waste Deposition Centres (for domestic hazardous wastes) | | | | | |
|---|------------------------------------|--|---|-----------------------------------|--------------------|
| I. | MC, Kapurthala | Required – 1 Installed – 1 Gap – Nil | The domestic hazardous waste collected from D to D is being stored at MRFs. | MC, Kapurthala | Activity completed |
| II. | MC, Phagwara | Required – 1 Installed – 0 Gap – 1 | The domestic hazardous waste collected from D to D is being stored at MRFs. | MC Phagwara | 31.08.2022 |
| III. | NP Bholath | Required – 1 Installed – 1 Gap – Nil | The domestic hazardous waste collected from D to D is being stored at MRFs. | NP Bholath | Activity completed |
| IV. | NP Begowal | Required – 1 Installed – 1 Gap – Nil | The domestic hazardous waste collected from D to D is being stored at MRFs. | NP Begowal | Activity completed |
| V. | MC Sultanpur LOdhi | Required – 1 Installed – 1 Gap - Nil | The domestic hazardous waste collected from D to D is being stored at MRFs. | MC Sultanpur LOdhi | Activity completed |
| VI. | NP Nadala | Required – 1 Installed – 1 Gap - Nil | The domestic hazardous waste collected from D to D is being stored at MRFs. | NP Nadala | Activity completed |
| VII. | NP Dhilwan | Required – 1 Installed – 1 Gap - Nil | The domestic hazardous waste collected from D to D is being stored at MRFs. | NP Dhilwan | Activity completed |
| VIII. | Cantonment Board, Kapurthala | Required – 1 Installed – 1 Gap - Nil | The domestic hazardous waste collected from D to D is being stored at MRFs. | Cantonment Board Kapurthala | Activity completed |

| | | | | | |
|-------|---|--|--|--------------|---|
| IX. | Villages Panchayat (632) | Yet to provide | Yet to prepare | DDPO | Preparation of action plan - 31.03.2022 Implementation - 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| 4. | Waste Transport | | | | |
| (i) | Review existing infrastructure for waste Transport. | ULB: Rickshaw Rehris/Tata Ace/Tractor trolleys • Kapurthala 93/0/4 • Phagwara: 190/1/5 • Bholath: 13/1/1 • Begowal 10/2/1 • Sultanpur: 13/2/1 • Nadala: 11/0/1 • Dhilwan: 9/2/1 • Cantonment Board 5/2/1 | Adequate | MCs/NPs | Activity completed |
| (ii) | Bulk Waste Trucks | Required/Available MC Kapurthala:1/0 MC Phagwara 1/0 | Not Adequate | MCs/NPs | 31.12.2022 |
| (iii) | Waste Transfer points | Name of the MCs and NPs/No of waste transfer points required/available Kapurthala:10/10 Phagwara: 12/12 Bholath: 2/2 Begowal: 2/2 Sultanpur: 3/3 Nadala: 1/1 Dhilwan: 1/1 | -Adequate | MCs/NPs | Activity completed |
| 5 | Waste Treatment and Disposal | | | | |
| (i) | Wet-waste Management: On-site composting by bulk waste generators | BWGs • MC Kapurthala: Identified 18 onsite composting 0 • Phagwara: Identified 23 onsite composting 0 • Bholath : Identified 02 onsite composting 0 • Begowal : | Identified bulk generators will be visited and onsite Composting will be get done from them. Also, new bulk generators will be identified. | MC/NP & PPCB | 30.06.2022 31.08.2022 |

| | | | | | |
|--|--------------------|---|--|--------------------|----------------------|
| | | identified 3 onsite composting 0 <ul style="list-style-type: none"> ● Sultanpur Lodhi: identified 2 onsite composting 1 ● Nadala : Identified 3 onsite composting 0 ● Dhilwan: Identified 2 onsite composting 0 ● Cantonment Board: Identified 01 onsite composting 01 | | | |
| (ii) Wet-waste Management: Facilities for central Bio-methanation/ Composting of Wet Waste. | | | | | |
| I. | MC, Kapurthala | Required - 15 Provided – 15 Gap - Nil | Already provided required no. of compost pits, however, its effective use will be ensured. | MC, Kapurthala | Activity completed |
| II. | MC Phagwara | Required -184 Provided – 30 Gap - 154 | Already provided required no. of compost pits, however, its effective use will be ensured. | MC Phagwara | 31.08.2022 |
| III. | NP Bholath | Required - 15 Provided – 15 Gap - Nil | Already provided required no. of compost pits, however, its effective use will be ensured. | NP Bholath | - Activity completed |
| IV. | NP Begowal | Required - 12 Provided – 12 Gap - Nil | Already provided required no. of compost pits, however, its effective use will be ensured. | NP Begowal | 31.03.2022 |
| V. | MC Sultanpur Lodhi | Required - 26 Provided – 26 Gap - Nil | Already provided required no. of compost pits, however, its effective use will be ensured. | MC Sultanpur Lodhi | -Activity completed |
| VI. | NP Nadala | Required - 14 Provided – 14 Gap - Nil | Already provided required no. of compost pits, however, its effective use will be ensured. | NP Nadala | Activity completed |
| VII | NP Dhilwan | Required - 16 Provided – 16 Gap - Nil | Already provided required no. of compost pits, however, its effective use will be ensured. | NP Dhilwan | Activity completed |
| VII | Cantonment Board | Required - 05 Provided – 05 Gap - Nil | Already provided required no. of compost pits, however, its effective use will be ensured. | Cantonment Board | Activity completed |

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|-------|--|---|---|--------------------------|--|
| | IX. Villages Panchayat (632) | Not Adequate | Plan yet to be prepared | DDPO | Preparation of action plan - 31.03.2022 Implementation - 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 160 VPs |
| (iii) | Dry-Waste Management: Material Recovery for dry-waste fraction | <p>MC Kapurthala Required- 1 Available - 1 Gap – Nil</p> <p>MC Phagwara Required- 4 Available - 1 Gap – 3</p> <p>NP Bholath Required- 1 Available - 1 Gap – Nil</p> <p>NP Begowal Required- 1 Available - 1 Gap – Nil</p> <p>MC Sultanpur Lodhi Required- 1 Available - 1 Gap – Nil</p> <p>NP Nadala Required- 1 Available - 1 Gap – Nil</p> <p>NP Dhilwan Required- 1 Available - 1 Gap – Nil</p> <p>Cantonment Board Required- 1 Available - 1 Gap – Nil</p> <p>Villages Panchayat - Not provided</p> | <p>All MCs/NPs have provided required no. of Material Recovery except Phagwara.</p> <p>Action Plan yet to be prepared</p> | <p>MC/NP</p> <p>DDPO</p> | <p>Activity completed</p> <p>31.08.2022</p> <p>Activity completed</p> <p>Preparation of action plan - 31.03.2022 Implementation - 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 -</p> |

| | | | | | |
|-------------|---|---|---|-----------------------|---|
| | | | | | 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| (iv) | Disposal of inert and non-recyclable wastes: Sanitary Landfill | MC Kapurthala, MC Phagwara, have already identified land for sanitary landfill site and work has been completed. Villages 546 | Remaining MCs/NPs are in the process of establishing sanitary landfill sites for which DPRs/ tendering process is being carried out. Action Plan Not Yet Prepared. | MCs / NPs DDPO | 31.12.2022 Preparation of action plan - 31.03.2022 Implementation - 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| (v) | Remediation of historic / legacy dumpsite | | | | |
| I. | MC, Kapurthala | <ul style="list-style-type: none"> Total legacy waste = 23,900 MT Waste remediated – 0 MT Balance – 23,900 MT | The machinery like mechanical Separator has been purchased and same has been installed at legacy waste dumpsite to remediate the legacy waste. | MC Kapurthala | Start date – 31.12.2021 Completion date – 31.12.2022 |
| II. | MC Phagwara | <ul style="list-style-type: none"> Total legacy waste – 4,05,000 MT Waste remediated – 0 Balance – 4,05,000 MT | The machinery like mechanical Separator has been purchased and same has been installed at legacy waste dumpsite to remediate the legacy waste. | MC Phagwara | Start Date- 31.12.2021 Completion Date- 31.08.2022 |
| III. | NP Bholath | <ul style="list-style-type: none"> Total legacy waste – 970 MT Waste remediated – 0 MT Balance – 970 MT | The machinery like mechanical Separator has been purchased and installation is in progress. | NP Bholath | Start date – 31.12.2021 Completion date – 31.12.2022 |

| | | | | | |
|-------|--------------------------|---|--|--------------------|---|
| IV. | NP Begowal | <ul style="list-style-type: none"> • Total legacy waste – 16000 MT • Waste remediated – 4000 MT • Balance – 12000 MT | | NP begowal | Start Date-Already Started Completion date – 31.12.2022 |
| V. | MC Sultanpur Lodhi | <ul style="list-style-type: none"> • Total legacy waste = 450 MT • Waste remediated – 90 MT • Balance – 360 MT | | MC Sultanpur Lodhi | Start Date-Already Started Completion date – 31.12.2022 |
| VI. | NP Nadala | <ul style="list-style-type: none"> • Total legacy waste = 550 MT • Waste remediated – 0 MT • Balance – 550 MT | | NP Nadala | Completion date – 31.12.2022 |
| VII. | NP Dhilwan | <ul style="list-style-type: none"> • Total legacy waste = 8000 MT • Waste remediated – 2000 MT • Balance – 6000 MT | | NP Dhilwan | Completion date – 31.12.2022 |
| VIII. | Cantonment Board | <ul style="list-style-type: none"> • Total legacy waste = 2500 MT • Waste remediated – 1200 MT • Balance – 1300 MT • MT | The machinery like mechanical Separator has been purchased and same has been installed at legacy waste dumpsite to remediate the legacy waste. | Cantonment Board | Start date – already started Completion date – 31.12.2022 |
| IX. | Villages Panchayat (546) | Not Started | Scheme for treatment of legacy waste in villages is yet to be prepared accordingly. | DDPO | Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| (vi) | Involvement of NGOs | Yes | NGOs are already identified for the | MCs/NPs and DDPO | Regular Activity |

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| | | | purpose. | | |
| (vii) | EPR of Producers: Linkage with Producers / Brand Owners | Linkage with Producers / Brand Owners | The producers / brand owners are being pursued to submit the action plan for disposal of plastic waste under EPR. | ULBs | 30.06.2022 |
| (viii) | Authorization of Waste Pickers | ULB: WPs Identified/ Authorized <ul style="list-style-type: none"> • Kapurthala- 12/12 • Phagwara -14/14 • Bholath – 4/4 • Begowal- 3/3 • Sultanpur-5/5 • Nadala-3/3 • Dhilwan-3/3 • Cantonment-0/0 | As per requirement, authorization of waste pickers will be carried out. | ULBs & DDPO | Regular activity |
| (ix) | Preparation of own by-laws to comply with SWM Rules 2016 | <ul style="list-style-type: none"> • All MCs/NPs have already prepared • In village panchayats - yet to prepare. | <ul style="list-style-type: none"> • All MCs/NPs have prepared • For village panchayats – Not yet prepared. | <ul style="list-style-type: none"> • ULBs • DDPO | <ul style="list-style-type: none"> • Activity completed • 31.03.2022 |
| (x) | Removal of garbage vulnerable points (GVPs) | Identified -10 Remove- 6 Gap- 4 | All the identified (GVPs) have been removed by the all MCs/NPs. However, a strict watch will be kept to avoid reoccurrence of GVPs | All ULBs | 31.08.2022 |
| (xi) | Provision of green belt and boundary wall around solid waste dumping site. | <p>MC Kapurthala Green Belt –Not provided Boundary Wall – Not provided</p> <p>MC Phagwara Green Belt –Not provided Boundary Wall – Not provided</p> <p>NP Bholath Green Belt –Not provided Boundary Wall – Not provided</p> <p>NP Begowal Green Belt –Not provided Boundary Wall – Not provided</p> <p>Sultanpur Lodhi Green Belt –Not provided Boundary Wall –</p> | The green belt around the boundary wall and construction of boundary wall of MCs/NPs will be started & completed by 30.06.2022 | Concerned MCs/NPs | 30.06.2022 |

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|--------|--|---|--|------------------|--------------------|
| | | Not provided NP Nadala Green Belt –Not provided Boundary Wall – Not provided NP Dhilwan Green Belt –Not provided Boundary Wall – Not provided Cantonment Board Green Belt –Not provided Boundary Wall – Not provided | | | |
| (xii) | Providing compartments and GPS tracking in garbage carrying vehicles | All the MCs/NPs have provided compartments & GPS tracking in garbage carrying vehicle. | Already complied with | ULBs | Activity completed |
| (xiii) | Action Plan for Treatment of leachate generated from legacy waste dumpsite. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020) | Treatment of leachate | Leachate management will be done alongwith Bio- remediation of legacy waste. | MCs/NPs | 31.12.2022 |
| (xiv) | Best practices, including setting up of Control Rooms where citizens can upload photos of garbage which may be looked into by the specified representatives of local bodies, at local level as well as State level. (Directions of Hon'ble NGT in | No Gap | Swachhata app is widely used by citizens for complaints related to SWM/ SBM, It is resolved and monitored at ULB and state level both. Link for updated Swachhata-MoHUA App: https://play.google.com/store/apps/details?id=com.ichangemycity.swachh Bharat | All Local bodies | Already in place |

| | | | | | |
|---------|--|---|---|-------------------|---|
| | OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020) | | | | |
| (xv) | CCTV cameras be installed at dumping sites. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020) | None of the MC/NP has installed CCTV camera at dump sites | CCTV cameras will be installed at dumping sites by 31.12.2021 | MCs/NPs | 31.12.2021 |
| (xvi) | Installation of Piezometer at Dump Site. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020) | MC Kapurthala – Not Installed MC Phagwara – Installed NP Bholath – Not Installed NP Begowal - Not Installed MC Sultanpur - Not Installed NP Nadala - Not Installed NP Dhillwan Not Installed | Piezometers at dump sites have not been installed. Shall be installed by 31.12.2021 However, monitoring is being carried out on regular basis. | Concerned MCs/NPs | 30.06.2022 MCs/NPs Activity completed |
| (xvii) | Carcass should be utilized by adopting rendering process or incineration and priority may be given to carcass utilization plants which are run by adopting rendering process. (Directions of Hon'ble NGT in OA no. 465/2019 dated 15.04.2021 | Presently Carcass of dead animals are being given to private contractor by MCs/NPs. | Proposal for utilization of carcass in a scientific manner is under consideration. However, boundary wall, hedges and plantation all around the carcass disposal points will be provided to control nuisance in the area by 31.03.2022. | MCs/NPs | For Proposal submission – 30.06.2022 For installation – 30.06.2023 |
| (xviii) | Carcass disposal to be done under the supervision Veterinary/Ani | No gap | Carcass disposal will be ensured under the supervision of veterinary doctors. | MCs/NPs | Regular activity |

| | | | | | |
|--------|---|---|--|------------------|--|
| | mal Husbandry Department of the State and the Local Bodies. (Directions of Hon'ble NGT in OA no. 465/2019 dated 15.04.2021 | | | | |
| (xix) | Management of waste water and solid waste by the unauthorized colonies / residential complex/commercial complex developed by Pvt. Colonizers. | Inadequate management of solid waste and liquid waste in colonies / commercial complex. | The unauthorized colonies / residential complex/commercial complex projects will be visited to verify the present method of management of solid waste & liquid waste generated from said projects and compliance will be made from said projects, thereafter, accordingly. | MCs/NPs | Implementation of the project w.r.t. management of wet, dry and liquid waste by the unauthorized colonies/residential complexes/commercial complexes developed by private colonizers may be done by 31.03.2023 |
| (xx) | To prepare proposal / scheme for management of solid waste in the villages either in cluster form or independently in individual villages | Inadequate Management of solid waste in the villages. | Scheme is yet to be Prepared. | DDPO | 31.03.2022 |
| (xxi) | Information Education and Communication (IEC) activities in respect of solid waste. | No gap | The IEC activities in this regard are already being done by the concerned departments. However, more IEC activities will be carried out for creating more awareness for the management of solid waste. | MCs/NPs | Regular Activity |
| (xxii) | Constitution of District Environment Committee in view of the constitution provisions under article | No gap | Constituted by the State Government. | State Government | Activity completed |

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|---------|---|--|---|--------------------------|---|
| | 243 G, 241 W and 243 ZD read with scheduled 11, 12 & 15 of SWM Rules, 2016. | | | | |
| (xxiii) | Management of carcass in rural area. | Inadequate management of carcass in rural area. | No. of carcasses existing = 632 | DDPO | Preparation of action plan - 31.03.2022 Implementation - 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| (xxiv) | Dry-Waste Management: Material Recovery for dry-waste fraction (RDF) | MC Phagwara Required-4 Available-1 Gap-3 | All MCs/NPs have provided adequate no. of MRFs for the management of dry waste except Sangrur & Malerkotla. | EO Sangrur & Malerkotla. | 31.08.2022 |
| (xxv) | Management of Horticulture Waste in MCs. | No. of composed pits provided: - MCKapurthala: 60 MCPPhagwara: 184 NP Bholath: 19 NP Begowal: 14 MC Sultanpur: 20 NP Nadala : 14 NP Dhillwan: 16 | All MCs / NPs have provided adequate no. of compost pits for the management of horticulture waste. | MCs/NPs | Activity completed |
| (xxvi) | Treatment of leachate generated for legacy waste dump sites | No Provision Made | the MCs/NPs have not provided provision for Treatment of leachate generated for legacy waste dump sites | MCs/NPs | 31.12.2022 (for all MCs / NPs) |

1. Plastic waste Management

(a) Current status related to Plastic Waste Management

| Sr. No. | Urban Local bodies | Estimated quantity of Plastic Waste Generated MT/per day |
|---------|-----------------------------------|--|
| 1. | Municipal Corporation Kapurthala | 30.00 |
| 2. | Municipal Corporation Phagwara | 2.0 |
| 3. | Municipal Council Sultanpur Lodhi | 0.05 |
| 4. | Nagar Panchayat Bholath | 0.04 |
| 5. | Nagar Panchayat Begowal | 0.18 |
| 6. | Nagar Panchayat Nadala | 0.02 |
| 7. | Nagar Panchayat , Dhilwan | 0.15 |
| 8. | Kapurthala Cantonment Board | 0.4 |

| | Local Bodies | Estimated quantity of Plastic Waste Generated MT/per day |
|---|---------------------------|--|
| 1 | Villages Panchayats (546) | 3.2 |

(b) Identification of gaps and Action plan:

| S. No. | Action points For village panchayats / blocks/ municipalities / corporations | Identification of gap | Action plan | Agencies Responsible | Target time for Compliance |
|--------|--|---|---|----------------------|---|
| 1. | Door to Door collection of dry waste including PW | MCs/NPs Achievement – 100% Gap – Nil Villages Panchayat (546)– not initiated | Already achieved 100 % door to door collection Action Plan is yet to be prepared | MCs/NPs DDPO | Regular activity Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |

| | | | | | |
|----|---|---|--|----------------------------|--|
| 2. | Facilitate organised collection of PW at Waste transfer point or Material Recovery Facility | <p>Adequate through Door to Door garbage Collection Rickshaw Rehris etc</p> <ul style="list-style-type: none"> • Kapurthala- 10 • Phagwara Required-4 Available-1 Gap-3 • Bholath - 02 • Begowal- 01 • Sultanpur-05 • Nadala-01 • Dhilwan-01 • Cantonment Board - 01 <p>Village Panchayats (610)-</p> | <p>All MCs/NPs have installed required no. Material Recovery Facilities (MRF).</p> <p>Action plan yet to be prepared</p> | <p>MCs/NPs</p> <p>DDPO</p> | <p>Activity completed</p> <p>31.08.2022</p> <p>Preparation of action plan - 31.03.2022</p> <p>Implementation – 30.06.2025</p> <p>By 30.06.2022 - 150 VPs</p> <p>By 30.06.2023 - 150 VPs</p> <p>By 30.06.2024 - 150 VPs</p> <p>By 30.06.2025 - 96 VPs</p> |
| 3. | PW collection Centres | <p>MC Kapurthala Required- 1 Available - 1 Gap – Nil</p> <p>MC Phagwara Required- 4 Available - 1 Gap – 3</p> <p>NP Bholath Required- 1 Available - 1 Gap – Nil</p> <p>NP Begowal Required- 1 Available - 1 Gap – Nil</p> <p>MC Sultanpur Required- 1 Available - 1 Gap – 0</p> <p>NP Nadala Required- 1 Available - 1 Gap – Nil</p> <p>NP Dhilwan Required- 1 Available - 1</p> | <p>All MCs/NPs have installed required no. Material Recovery Facilities (MRF).</p> | <p>MCs/NPs</p> | <p>31.08.2022</p> |

| | | | | | |
|----|--|---|--|-----------|------------------|
| | | Gap – Nil Cantonment Board Required- 1 Available - 1 Gap – Nil | | | |
| 4. | Awareness and education programs implementation | No Gap | Awareness is being created amongst the public by organizing seminars, through school children, by providing banners at prominent places of the city etc. The MCs/NPs are conducting meetings with owners of hotels / restaurants / marriage palaces to eliminate single use plastic. | MCs/NPs | Regular activity |
| 5. | Access to Plastic Waste Disposal Facilities | All MCs and NPs have executed an agreement with M/S Shakti Plastic | The use of plastic waste in road construction and in industrial sector like pyrolysis plants, recyclers etc. is being made by remaining MCs/NPs. | MCs/NPs | Regular Activity |
| 6. | Plastic Industry Registration. Total no. of plastic unit required registration. Total no. of plastic unit obtained registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | Total units – 04 Registration obtained – 04 Gap - 0 | Already achieved | PPCB | Regular Activity |
| 7. | Development and setting up of infrastructure for segregation, collection, storage, transportation, Processing, and disposal of Plastic Waste either on its own for by | Inadequate disposal arrangement of plastic waste | <ul style="list-style-type: none"> PMIDC came into contract with one agency MAX speciality Films in this regard to purchase/collect any kind of plastic garbage from the ULBs. | MCs / NPs | 31.03.2022 |

| | | | | | |
|-----|--|---|---|-------------------------|---|
| | engaging agencies or producers. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | | <ul style="list-style-type: none"> • PMIDC coordinated with PWD and Mandi Board to utilize plastic waste in Roads. • More effective Disposal facility needs to be engaged under guidance of PMIDC | | |
| 8. | Framing of bye-laws incorporating the provisions of Plastic Waste Management Rules, 2016. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | ULBs- Already made Rural areas- yet to frame | MCs/NPs already framed Rural Panchayats = yet to prepared | MCs/NPs and DDPO | Activity already completed 31.03.2022 |
| 9. | Set up, operationalize and co-ordinate for Plastic Waste management in Rural area. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | Inadequate | Proposal is yet to be prepared | DDPO | Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| 10. | Ban on non-recyclable single use polythene bags. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | ULBs - Initiated | Ban has been already imposed by the State Govt., on sale, purchase, manufacturing and stock of plastic carry bags. The MoEF & CCP vide its notification dated 12.08.2021 has banned Single use plastic with effect from 1.07.2022. Further, the guidelines of the Centre and State Govt., regarding banning of single use plastic will be | ULBs & PPCB | Activity already completed |

| | | | | | |
|-----|---|-----------------------------|--|---------------------------|---|
| | | | complied with. | | |
| 11. | Segregation, collection, storage, transportation of plastic waste and channelizing of recyclable plastic waste fraction to recycler having valid registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | No gap. | Recyclable plastic waste is collected, transported and stored separately by all ULBs. Currently such plastic is being stored at MRF. | ULBs | Activity already completed |
| | | In Villages – not adequate. | Action plan is yet to be prepared | DDPO | Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| 12. | Awareness to the waste generator to take steps to minimize the plastic waste and segregate plastic waste at source. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | No Gap | Awareness is being carried out on regular basis by organizing camps. | ULBs & DDPO | Regular activity |
| 13. | Encouragement to the education institute to take up waste management in their curriculum and create student project for waste recycling. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | No gap | Already being followed and seminars are being organized. | DEO (Primary & Secondary) | Regular activity |

| | | | | | |
|-----|---|-----------|---|------------------|------------------|
| 14. | Directions to Gram Panchayat to perform functions such as ensuring segregation, collection, storage, transportation, plastic waste and channelization of recyclable plastic waste fraction to recyclers having valid registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | Initiated | Directions are already been given to BDPO's ensuring segregation, collection, storage, transportation, plastic waste and channelization of recyclable plastic waste fraction to recyclers having valid registration | DDPO | Regular activity |
| 15. | Creating awareness among all stakeholders about their responsibilities, and ensuring that open burning of plastic waste does not take place. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | No gap | All stakeholders are being made aware regarding their responsibility regarding burning of plastic waste. Action against violators is also being taken as per rules. | All local bodies | Regular activity |
| 16. | To ensure proper plastic waste management, industries may be directed to explore the possibilities of use of such wastes in construction of roads. Further industries may also be directed to collaborate with different research institutes to explore such alternatives. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | Initiated | Instructions are being given to the industries regularly to explore the possibility of use of plastic waste in a scientific manner like in road construction etc. in consultation with research institutes. | PPCB | Regular activity |

2. C & D Waste Management

a. Current status related to C & D Waste

| Details of Data Requirement | Present Status (MT) |
|---|---|
| Total C & D waste generation in MT per day (As per data from Municipal Corporations / Municipalities) | MC Kapurthala – 1 to 1.5 approx. MC Phagwara – 0.7 NP Bholath – 0.05 NP Begowal- 0.33 to 0.50 Approx MC Sultanpur Lodhi- 0.10 NP Nadala- 0.33 NP Dhilwan- 0.20 to 0.25 Approx Cantonment Board – 0.8 |
| Does the District has access to C&D waste recycling facility? | ULB has identified and notified place for C&D waste recycling and people do reuse of C&D waste by their own level. There is no C&D Bulk Waste Generator. |

b. Identification of gaps and Action plan:

| S. No. | Action points for blocks / town municipalities / City corporations | Identification of Gaps | Action Plan | Responsible agency | Timeline for completion of action plan |
|--------|---|---|-------------------|--------------------|--|
| 1. | Arrangement for separate collection of C&D waste to C&D waste deposition point. | All the MCs/NPs have already identified sites and made operational for separate collection of C & D waste | Already completed | MCs / NPs | Activity completed |
| 2. | Whether local authority have fixed user fee on C&D waste and introduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month? | No gap | Already fixed | MCs/NPs | Activity completed |

| | | | | | |
|----|---|---|---|----------|---|
| 3. | C&D recycling Facility | Presently, there is no C&D recycling Facility in the District. | Local bodies department is preparing proposal for installation of recycling facility. | ADC (UD) | <ul style="list-style-type: none"> • Preparation of proposal 31.03.2022 • Implementation - 30.04.2023 |
| 4. | Usage of recycled C&D waste in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads | Presently there is no C&D recycling facility in the District. No C&D waste is being recycled. | Local bodies department is preparing proposal for installation of recycling facility. Once, the recycling facility will be installed, C&D waste will be recycled. | MCs/NPs | <ul style="list-style-type: none"> • Preparation of proposal 31.03.2022 • Implementation - 30.04.2023 |
| 5. | IEC on C & D waste management | No gap | Awareness is being made through media, NGOs & radio. | MCs/NPs | Regular Activity |

(iv) **Biomedical Waste Management**

a. Current Status related to Biomedical Waste

| Inventory of BMW in the District | Quantity |
|--|--|
| Total no. of Bedded Healthcare Facilities | 107 |
| Total no. of non-bedded HCF | 353 |
| No. of HCFs authorized by SPCBs/PCCs | 339 |
| No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs) in District | Nil |
| Capacity of CBWTFs | Nil |
| No. of Deep burials for BMW if any | Nil |
| Quantity of biomedical waste generated per day | 450 kg |
| Quantity of biomedical waste treated per day | 450 kg (At CBWTF's located at Amritsar). |

b. Identification of gaps and Action plan:

| Sr. No. | Action points | Gaps | Action Plan | Responsible agency | Timeline |
|----------------|--|--|--|--|-------------------|
| 1. | Inventory and Identification of Healthcare Facilities | Inventory already completed | Regular activity | Punjab Pollution Control Board/Civil Surgeon | Regular activity |
| 2. | Adequacy of facilities to treat Biomedical Waste | Adequate (At present the Bio Medical Waste generated from HCFs is being lifted by M/s M/s Amritsar Enviro Care, Amritsar | -. | Punjab Pollution Control Board | Already Completed |
| 3. | Tracking of BMW | Bar code system already in place. All HCFs are using it. Compliance of the same is being regularly checked during visits to the HCF. | Already in place | Punjab Pollution Control Board | Regular activity |
| 4. | Awareness and education of healthcare staff | Regular training camps are being organized for staff of HCFs | Regular training camps are being organized for staff of HCFs | Civil Surgeon Kapurthala/ PPCB | Regular activity |

| | | | | | |
|----|--|--|---|--------------------------------|---|
| 5. | Adequacy of funds | Adequate funds is allocated to Government health care facilities for bio- medical waste management by State Govt. | - | Civil Surgeon Jalandhar | Regular activity |
| 6. | Compliance to Rules by HCFs and CBWTFs | Compliance of the BMW Rules by HCFs is being regularly checked during visits to the HCFs by PPCB. | - | Punjab Pollution Control Board | Already in place. Regular activity. |
| 7. | District Level Monitoring Committee | District Level Monitoring Committee has already been constituted and meetings are being organized regularly. | - | ADC (G) | Already in place. Regular activity |
| 8. | Wastewater Treatment | All 107 bedded hospitals of the district are required to install ETP for treatment of waste water of HCF.. | The Board has given them time upto 31.03.2022 for installing the same. Further action is under process. | Punjab Pollution Control Board | The Board has given them time upto 31.03.2022 for installing the ETP. |
| 9. | Spent Fixer Hypo Solution and Xray films management | No Gap, Most of the HCFs in the Distt. Has converted to digital x-ray system and there are very few HCFs left using old system of solution and films for x-ray. At present, all these HCFs are getting lifted the same to M/s Molana Silver Nitrate recycling unit, Sangrur. | No action required | Punjab Pollution Control Board | Already completed |

(v) Hazardous Waste Management

a. Current Status Related to Hazardous Waste Management

| Details of Data Requirement | Present Status |
|---|--|
| No of Industries generating HW | 58 |
| Quantity of HW in the district | 418.14 MT/Annum |
| (i) Quantity of Incinerable HW | 0 MT/Annum |
| (ii) Quantity of land-fillable HW | 355.69 MT/Annum |
| (iii) Quantity of Recyclable / utilizable HW | 1.85 MT/Annum |
| No of captive/common TSDf | There is no TSDf Facility in Distt. Kapurthala |
| Contaminated Sites or probable contaminated sites | Nil |

b. Identification of Gaps and Action plan:

| S. No. | Action points | Identification of Gaps | Action Plan | Responsible agency | Timeline |
|--------|--|---|---|---|-------------------|
| 1. | Regulation of industries and facilities generating Hazardous Waste | Inventory of hazardous waste generating industries have already been prepared by PPCB and compliance of HWM Rules by these industries is checked regularly by PPCB. | TSDf Nimbuan is lifting hazardous waste from various hazardous waste generated units of Distt. Kapurthala | Punjab Pollution Control Board | Regular Activity |
| 2. | Establishment of collection centres | All the hazardous waste generating units are providing proper storage within its premises for hazardous waste being generated in their premises. | TSDf Nimbuan is lifting hazardous waste from various hazardous waste generated units of Distt. Kapurthala | Department of industries & Punjab Pollution Control Board | Already completed |
| 3. | Availability / Linkage with common TSDf or disposal facility | TSDf Nimbuan is lifting hazardous waste from various hazardous waste generated units of Distt. Jalandhar. All the generators are | - | Department of industries & Punjab Pollution Control Board | Already completed |

| | | | | | |
|----|--|---|--|--------------------------------|------------|
| | | linked to TSDf Nimbua or any other recycler/incinerator. | | | |
| 4. | Contaminated Sites | Nil | NR | NA | NA |
| 5. | Training to workers for handling of hazardous waste | At present, the training to the workers for handling hazardous waste is being managed by the individual unit. | TSDf Nimbua will be engaged for imparting training to industrial workers. Quarterly training session will be conducted in collaboration with various industrial associations | Punjab Pollution Control Board | 31.12.2022 |

(vi) **E-Waste Management**

a. **Current Status Related to E-Waste Management**

| Details of Data Requirement | Present Status |
|---|--|
| Inventory of E-Waste in MT/year | 3.718 MT/year |
| Collection centers established by ULBs in the District | Nil |
| Collection centers established by Producers or their PROs | Nil |
| Nos. of authorized E-Waste recyclers / Dismantler | There is no e-waste dismantling or processing unit in district Kapurthala. |

b. **Identification of gaps and action plan:**

| S. No. | Action points | Gaps in implementation | Action Plan | Responsible agency | Timeline |
|---------------|--|--|--|---|------------------|
| 1 | Inventory / Generation of E-Waste / Bulk-waste generators | Inventory already prepared and regularly updated by PPCB | Awareness among shopkeeper/people being done by publishing news paper ads. | ADC (UD)/ Municipal Corporation/ ULBs/Cantt Board/JDA | Regular Activity |

| | | | | | |
|---|---|---|---|---|------------------------------|
| 2 | E-Waste collection points | No e-waste collection point has been provided by any MC/NP. | There is no e-waste Collection Point in district Kapurthala. | ADC (UD)/Municipal Corporation/ULBs/Cantt Board/JDA | To be provided by 30.06.2022 |
| 3 | Linkage among Stakeholders to channelize E-Waste | Gap = 100% | All the ULBs will provide a collection centre in their respective areas and will be make agreement with the authorized recycler and will maintained record of the same. | ADC (UD)/Municipal Corporation/ULBs/Cantt Board/JDA | 31.03.2022 |
| 4 | Regulation of Illegal E- Waste recycling / dismantling | Gap = 100% | Action will be initiated to identify and restrict all the illegal recyclers and dismantlers. | ADC (UD)/Municipal Corporation/ULBs/Cantt Board/JDA | 30.06.2022 |
| 5 | Integration of informal sector | Gap = 100% | Action will be initiated for Integration of informal sector. | ADC (UD)/Municipal Corporation/ULBs/Cantt Board/JDA | 30.06.2022 |
| 6 | Awareness and Education | Awareness among shopkeeper/people being done. | Newspaper ads will be published for awareness of people. | ADC (UD)/Municipal Corporation/ULBs/Cantt Board/JDA | Regular activity |

3.0 Air Quality Management

a. Current Status related to Air Quality Management

| Details of Data Requirement | Present Status |
|---|----------------|
| Number of Automatic Air Quality monitoring stations in the district. – Operated by SPCB / State Govt / Central govt./ PSU agency: – Operated by Industry: | Nil |
| Number of manual monitoring States operated by SPCBs | Nil |

| Name of towns / cities which are failing to comply with national ambient air quality standards | Nil | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------|--|--|---------|--------------------|-------------------|---------------------------------------|----|--------------|-----|-----|----|------------|----|--|----|-------------------|----|----|----|----------------|----|----|----|------------|---|---|----|------------|---|---|----|---|---|---|
| No of air pollution industries | 282 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prominent air polluting sources | <p>282 Nos. Air polluting industries fall under the jurisdiction of District Jalandhar which require APCD system and all the 282 Nos. industries have provided their own APCDs to control Air Pollution. The air polluting industries located in the jurisdiction of Jalandhar are as under:</p> <table border="1"> <thead> <tr> <th>Sr. No.</th> <th>Type of industries</th> <th>Number of Units *</th> <th>No. of units which have provided APCD</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Rice sheller</td> <td>104</td> <td>104</td> </tr> <tr> <td>2.</td> <td>Brick Kiln</td> <td>81</td> <td>33 no. brick kilns are lying closed. 27 no. brick kilns have adopted induced draft with zig zag technology. Action against 21 no. brick kilns as per provisions of the Air Act 1981 is under process for their closure</td> </tr> <tr> <td>3.</td> <td>Induction furnace</td> <td>10</td> <td>10</td> </tr> <tr> <td>4.</td> <td>Cupola Furnace</td> <td>81</td> <td>81</td> </tr> <tr> <td>5.</td> <td>Distillery</td> <td>1</td> <td>1</td> </tr> <tr> <td>6.</td> <td>Sugar Mill</td> <td>1</td> <td>1</td> </tr> <tr> <td>7.</td> <td>Others (Food Processing, Dyeing, Rail Coach Manufacturing etc.)</td> <td>4</td> <td>4</td> </tr> </tbody> </table> | | | | Sr. No. | Type of industries | Number of Units * | No. of units which have provided APCD | 1. | Rice sheller | 104 | 104 | 2. | Brick Kiln | 81 | 33 no. brick kilns are lying closed. 27 no. brick kilns have adopted induced draft with zig zag technology. Action against 21 no. brick kilns as per provisions of the Air Act 1981 is under process for their closure | 3. | Induction furnace | 10 | 10 | 4. | Cupola Furnace | 81 | 81 | 5. | Distillery | 1 | 1 | 6. | Sugar Mill | 1 | 1 | 7. | Others (Food Processing, Dyeing, Rail Coach Manufacturing etc.) | 4 | 4 |
| Sr. No. | Type of industries | Number of Units * | No. of units which have provided APCD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Rice sheller | 104 | 104 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | Brick Kiln | 81 | 33 no. brick kilns are lying closed. 27 no. brick kilns have adopted induced draft with zig zag technology. Action against 21 no. brick kilns as per provisions of the Air Act 1981 is under process for their closure | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Induction furnace | 10 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Cupola Furnace | 81 | 81 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Distillery | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Sugar Mill | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Others (Food Processing, Dyeing, Rail Coach Manufacturing etc.) | 4 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

b. Identification of gaps and action plan:

| Sr. No. | Action points | Indicative Action Plan | Responsible agency | Timeline |
|---------|--|--|---|--|
| 1. | Identification of prominent air polluting sources | Action under process. | Punjab Pollution Control Board | Identification to be completed by 30.06.2022 |
| 2. | Ambient Air quality data | No ambient air quality station falls under the jurisdiction of Distt. Kapurthala | Punjab Pollution Control Board | Not Required |
| 3. | Setting up of Continuous Ambient Air Quality Monitoring Station | No ambient air quality station falls under the jurisdiction of Distt. Kapurthala | Punjab Pollution Control Board | Not Required |
| 4 | District Level Action Plan for Air Pollution | Distt. kapurthala has not been declared as non attainment city, as such, no District level action plan is required | PPCB/District Administration for District level monitoring committee | Not Required |
| 5. | Hotspots of air pollution in District | To be identified as per report of Source Apportionment Study of Jalandhar City to be submitted by IIT Delhi. | Punjab Pollution Control Board | Already identified and completed |
| 6. | Awareness on Air Quality | Currently no awareness activities are been carried out except for Stubble burning awareness activities. | Display boards showing air quality data shall be displayed by Punjab Pollution Control Board at various locations | 31.12.2022 |
| 7 | Preparation of micro level action plan for control of air pollution in Kapurthala town | Under preparation | ULBs in consultation with PPCB and Institute of repute (IOR) | 30.09.2021 |

C. Management of Agriculture Stubble

| S. No. | Action points | Indicative Action Plan | Responsible agency | Timeline | | | | | | | | | | | | | | | | | | | | | |
|--------|--|---|-------------------------|------------------|------|---|--------------|------|---|--------------|-----|---|---------------------|------|---|--------------|-----|---|------------|-----|---|-----------|-----|-------------------------|------------|
| 1. | Area under agricultural for paddy/wheat | Paddy =1.21 Lakh Ha. Wheat =1.23 Lakh ha. | Agricultural Department | Regular Activity | | | | | | | | | | | | | | | | | | | | | |
| 2. | Quantity of stubble of paddy/wheat | Paddy Straw (@6.5t /ha)=7.865 Lakh ton Wheat Straw=3.89 Lakh ton (75% Wheat straw is used as chaff through Straw Reaper & remaining can be managed by Rotavator /RMB Plough | Agricultural Department | NA | | | | | | | | | | | | | | | | | | | | | |
| 3. | No. of Agricultural implements required for management of paddy/wheat stubble | <table border="1"> <thead> <tr> <th>Sr.No</th> <th>Description</th> <th>Nos.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Super Seeder</td> <td>2200</td> </tr> <tr> <td>2</td> <td>Happy Seeder</td> <td>500</td> </tr> <tr> <td>3</td> <td>Mulcher+ RMB Plough</td> <td>2500</td> </tr> <tr> <td>4</td> <td>Straw Reaper</td> <td>800</td> </tr> <tr> <td>5</td> <td>Baler+Rake</td> <td>100</td> </tr> <tr> <td>6</td> <td>Super SMS</td> <td>600</td> </tr> </tbody> </table> <p>For In-Situ Management of Paddy straw, Super Seeder& Happy Seeder can do it in single operation for sowing Wheat in paddy fields.</p> <p>Other farmer who wants to sow potato, Vegetables or even wheat crops can use Combination of Mulcher + RMB Plough for incorporation of Paddy straw.</p> <p>For Ex-situ Management, Balers can be the solution.</p> <p>For Wheat straw Straw Reaper can solve the purpose.</p> | Sr.No | Description | Nos. | 1 | Super Seeder | 2200 | 2 | Happy Seeder | 500 | 3 | Mulcher+ RMB Plough | 2500 | 4 | Straw Reaper | 800 | 5 | Baler+Rake | 100 | 6 | Super SMS | 600 | Agricultural Department | 31.03.2023 |
| Sr.No | Description | Nos. | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Super Seeder | 2200 | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Happy Seeder | 500 | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Mulcher+ RMB Plough | 2500 | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Straw Reaper | 800 | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Baler+Rake | 100 | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Super SMS | 600 | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | |
|----|--|---|--------------------|-------------|-------------------------|------------|
| 4. | Gap of Agricultural implements for complete management of stubble | Sr.No | Description | Nos. | Agricultural Department | 31.10.2023 |
| | | 1 | Super Seeder | 1400 | | |
| | | 2 | Happy Seeder | 60 | | |
| | | 3 | Mulcher+RMB Plough | 500* | | |
| | | 4 | Straw Reaper | 100 | | |
| | | 5 | Baler+Rake | 70 | | |
| | | 6 | Super SMS | 250 | | |
| | | <p>This gap in availability of implements can be accomplished through supply of implements under subsidy scheme to augment the pace of adoption of these straw management techniques.</p> <p>*Gap in case of straw reaper is filled by purchase of 100 new machine in district and 400 no's will be available on custom hiring from other districts & states.</p> | | | | |
| 5. | Steps taken to provide required no. of agricultural implements for zero stubble burning | <ol style="list-style-type: none"> 1. Providing subsidy under In-situ CRM central Sector Scheme. 2. Encouraging Custom Hiring Centre, Coop Societies, Panchayats, and FPO to avail benefits under this scheme and cater services to no. of beneficiaries. 3. Through IEC activities awareness campaigns are undertaken for farmers to use these machine and familiarize them about the benefits of these techniques. | | | Agricultural Department | 31.10.2023 |
| 6. | Funds requirement | Approx. 30crores to fill the gap between availability and actual requirement of machine. | | | Agricultural Department | 31.10.2023 |
| 7. | Source of funding | In-Situ CRM scheme. | | | Agricultural Department | 31.10.2023 |

4.0 Water Quality Management

a. Current Status Related to Water Quality Management

| Details of Data Requirement | Present Status |
|-------------------------------------|---|
| Rivers | River Beas (470 KM approx) |
| Length of Coastline (if any) | Nil |
| Nalas/ Drains/Creeks meeting Rivers | 7 nos. drains (Begowal Drain, Raipurpeer Bakash Drain, Ramgarh Drain, Wadala Drain, Bhulana Drain, Sultanpur Drain, Phagwara drain) |
| Lakes / Ponds | - |

| | |
|---|----------------------------------|
| Total Quantity of sewage from towns and cities in District | 70.1 MLD (approx.) |
| Quantity of industrial wastewater | 8.5 MLD |
| Percentage of untreated sewage | Approximately 15% |
| Details of bore wells and number of permissions given for extraction of groundwater | 99 Nos under District Kapurthala |
| Groundwater polluted areas if any | Nil |
| Polluted river stretches if any | River Beas (32 KM approx) |

b. Identification of Gaps and Action Plan for Water Quality Management:

| Sr. No. | Action points | Gaps and Action Plan | Responsible agency | Timeline |
|---------|--|---|---------------------------------|------------------|
| 1. | Inventory of Water Bodies | Following Water bodies have been inventorized by department of water resources. Begowal Drain: 2.90 KM Raipur Pirbux Drain: 13.87 KM Ramgarh Drain: 6.40 KM Nizampur Drain: 19.51KM Kahne & Kahne extension Drain: 20.10 KM Wadala Drain: 21.70 KM Bhulana Drain: 1.37 KM Brindpur Drain: 1.06 KM Sultanpur Drain: 23.48 KM The monitoring of rivers, drains are already being carried out and data is being maintained. | Water Resources Department/PPCB | Regular activity |
| 2. | Quality of Water Bodies in the district | Monitoring of various water bodies of Distt. is already being carried out by Punjab Pollution Control Board on regular basis. Available on web link http://ppcbcems.nic.in/public | Water Resources Department/PPCB | Regular Activity |

| | | | | |
|----|--|--|--|-------------------|
| 3. | Hotspots of water contamination | Monitoring of various water bodies of Distt. is already being carried out by Punjab Pollution Control Board on regular basis. Action plan for clean River Sutlej has already been prepared by Punjab Pollution Control Board and regular monitoring of the same is being done through monthly progress reports and is reviewed at state level by Hon'ble PSSTE, Chandigarh and by CS Punjab in apex committee. | PPCB | Regular Activity |
| 4. | Protection of river / lake water front | Action plan for clean River Beas has already been prepared by Punjab Pollution Control Board and regular monitoring of the same is being done through monthly progress reports. | /Water Resource/DDPO/All Municipal Councils, Kapurthala/ Water Resources Department/PPCB/ULB | Regular Activity |
| 5. | Inventory of sources of water pollution | Already completed and incorporated in Action Plan Beas | PPCB | Already completed |
| 6. | Oil spill disaster management (for coastal districts) | NA (There is no coastline in Distt. Kapurthala) | NR | NA |
| 7. | Protection of flood plains | Every year flood protection works list has been prepared and recommended from concerned authorities, there after works have been carried out according to availability of funds for protection of flood plain and In flood plain is regular checked by field staff for any encroachment. | Water Resources Department | Regular Activity |
| 8. | Flood plains mapping | The mapping has been done by the Drainage Department manually. The same will be put in an | Water Resources Department | 31.03.2022 |

| | | | | |
|-----|-------------------------------------|---|--------------------------------|--------------------------------------|
| | | electronic file and link of the same will be shared. | | |
| 9. | Rejuvenation of ground water | CGWA has already prepared and action plan for rain water harvesting. Data available on web site http://cgwb.gov.in | Soil Conservation department | Timelines mentioned in the Annexures |
| 10. | Complaints redressal system | PPCB has already awarded the work of development of web Based Public Grievance Management and Redressal Portal (PGRP) for Punjab to NIC, New Delhi. The project was to be completed within two months at a cost of Rs. 5,05,040/-. Due to Lockdown situation in the State, the same has got extended. NIC has handed over the App for trial run to PPCB and the trial run has been successfully completed. The test link has been successfully run by all the regional offices of the Board. The PGRP Android App has been made and will be made functional by 31.12.2021. web link:- http://publicgrievancepcb.gov.in | Punjab Pollution Control Board | 31.12.2021 |

5.0 Management of Domestic Sewage

5.1 Management of Domestic Sewage in Urban Areas

a. Indicative Data

| Details of Data Requirement | Present Status |
|--|----------------|
| No of Class-II towns & class 3 towns | 5 |
| No of Class-I towns | 2 |
| No of Towns STPs installed | 7 |
| No of Towns needing STPs | 7 |
| No of ULBs having partial underground sewerage network | 6 |

| | |
|--|----------|
| No of towns not having underground sewerage network | 1 |
| Total Quantity of Sewage generated in District from Class II cities and above | 76.5 MLD |
| Quantity of treated sewage flowing into Rivers (directly or indirectly) | 70.1 |
| Quantity of untreated or partially treated sewage flowing into rivers (directly or indirectly) | - |
| Quantity of sewage flowing into lakes | - |
| Total available Treatment Capacity | 70.1 |

b. Identification of Gaps and Action Plan

| S. No. | Action points | Gaps and Action Plan | Responsible agency | Timeline for completion of action plan | | | | | | | | | | | | | | | | | | | | |
|--------|--------------------------------------|---|---|--|------------------------|---|---|---|------------|--------|------|--|---|---------|-------|-----|--|---|---------|---------|-----|------------------------------|------------|------------|
| 1. | Sewage Treatment Plants(STPs) | <p>The local bodies falling under District Kapurthala are Kapurthala, Phagwara, Sultanpur Lodhi, Begowal, Bholath, Dhilwan & Nadala. The details of STPs installed & operational is tabulated below:-</p> <p>Existing STPs</p> <table border="1"> <thead> <tr> <th>Sr no</th> <th>Town</th> <th>STP installed capacity</th> <th>Technology (UASB/ASP/OP/SBR/MBR/FAB etc.)</th> <th>Disposal (land, river sea or any other)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Kapurthala</td> <td>25 MLD</td> <td>UASB</td> <td>Partially onto land for irrigation & mainly into Holy Bein</td> </tr> <tr> <td>2</td> <td>Bholath</td> <td>4 MLD</td> <td>WSP</td> <td>Partially into drain leading to Holy Bein & partially onto land for irrigation</td> </tr> <tr> <td>3</td> <td>Begowal</td> <td>2.5 MLD</td> <td>SBR</td> <td>Partially into drain leading</td> </tr> </tbody> </table> | Sr no | Town | STP installed capacity | Technology (UASB/ASP/OP/SBR/MBR/FAB etc.) | Disposal (land, river sea or any other) | 1 | Kapurthala | 25 MLD | UASB | Partially onto land for irrigation & mainly into Holy Bein | 2 | Bholath | 4 MLD | WSP | Partially into drain leading to Holy Bein & partially onto land for irrigation | 3 | Begowal | 2.5 MLD | SBR | Partially into drain leading | ULBs/PWSSB | 31.12.2023 |
| Sr no | Town | STP installed capacity | Technology (UASB/ASP/OP/SBR/MBR/FAB etc.) | Disposal (land, river sea or any other) | | | | | | | | | | | | | | | | | | | | |
| 1 | Kapurthala | 25 MLD | UASB | Partially onto land for irrigation & mainly into Holy Bein | | | | | | | | | | | | | | | | | | | | |
| 2 | Bholath | 4 MLD | WSP | Partially into drain leading to Holy Bein & partially onto land for irrigation | | | | | | | | | | | | | | | | | | | | |
| 3 | Begowal | 2.5 MLD | SBR | Partially into drain leading | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | |
|--|--|---|-----------------|---------------------|---|---|-------------------------------------|-----------------------------------|--|
| | | | | | to Holy Bein & partially onto land for irrigation | | | | |
| | | 4 | Sultanpur Lodhi | 2.6 MLD | WSP | Partially into drain leading to Holy Bein & partially onto land for irrigation. | | | |
| | | 5 | Phagwara | 8 MLD (Plahi Road) | MBBR | Partially onto land for irrigation & partially into Phagwara drain. | | | |
| | | | | 20 MLD (Plahi Road) | UASB | Partially onto land for irrigation & partially into Phagwara drain | | | |
| | | | | 8 MLD (Hadibad) | MBBR | Into Phagwara drain | | | |
| | | | | | | | | | |
| | | | | | | | Name of ULB | Name of STP & capacity | Timeline for completion & commissioning |
| | | | | | | | Sultanpur Lodhi | 4 MLD at Bhagoriahian Road | 30.09.2022 |
| | | | | | | | Sultanpur Lodhi | 1 MLD at Chaldhan Road | 30.09.2022 |
| | | | | | | | Rawal & Colonies | 3 MLD. | 30.06.2022 |
| | | | | | | | Nadala | 1 MLD | 31.12.2023 |
| | | | | | | | Colonies around Lovely Professional | Yet to access | assessment to be made :- 31.03.2022 installation of STPs |

| | | <p>Proposed STPs As per Action Plan prepared for clean Holy Bein the timelines for providing STPs and setting up of treatment facility for sewage / sullage in rural area are as under:-</p> <table border="1"> <thead> <tr> <th>Name of ULB</th> <th>Name of STP & capacity</th> </tr> </thead> <tbody> <tr> <td>Sultanpur Lodhi</td> <td>4 MLD at Bhagorahian Road</td> </tr> <tr> <td>Sultanpur Lodhi</td> <td>1 MLD at Chaldhan Road</td> </tr> <tr> <td>Rawal & Colonies</td> <td>3 MLD.</td> </tr> <tr> <td>Nadala</td> <td>1 MLD</td> </tr> <tr> <td>Colonies around Lovely Professional University</td> <td>Yet to access</td> </tr> <tr> <td>Dhilwan</td> <td>2 MLD Tenders in Progress</td> </tr> </tbody> </table> | Name of ULB | Name of STP & capacity | Sultanpur Lodhi | 4 MLD at Bhagorahian Road | Sultanpur Lodhi | 1 MLD at Chaldhan Road | Rawal & Colonies | 3 MLD. | Nadala | 1 MLD | Colonies around Lovely Professional University | Yet to access | Dhilwan | 2 MLD Tenders in Progress | | Univ ersity | | 31.12.2 023 |
|--|--|--|--|------------------------|-----------------|--|-----------------|------------------------|------------------|--------|--------|-------|--|---------------|---------|---------------------------|--|----------------|--|----------------|
| Name of ULB | Name of STP & capacity | | | | | | | | | | | | | | | | | | | |
| Sultanpur Lodhi | 4 MLD at Bhagorahian Road | | | | | | | | | | | | | | | | | | | |
| Sultanpur Lodhi | 1 MLD at Chaldhan Road | | | | | | | | | | | | | | | | | | | |
| Rawal & Colonies | 3 MLD. | | | | | | | | | | | | | | | | | | | |
| Nadala | 1 MLD | | | | | | | | | | | | | | | | | | | |
| Colonies around Lovely Professional University | Yet to access | | | | | | | | | | | | | | | | | | | |
| Dhilwan | 2 MLD Tenders in Progress | | | | | | | | | | | | | | | | | | | |
| 2. | Underground sewerage network | <p>Gaps</p> <ul style="list-style-type: none"> • Kapurthala- 10% • Phagwara-20% • Bholath - 40% • Begowal- 35% • Sultanpur-10% • Nadala-40% • Dhilwan-30% | ULBs/PW SSB | The | complete | underground sewerage network in on MCs/NPs to be provided by 31.12.202 | | | | | | | | | | | | | | |
| 5. | <p>Reduction of per capita water utilization/supply</p> <p>a. Installatio n of flow meters at various locations on water supply network to ensure restricted supply to reduce waste water generatio n</p> | <p>This will be done after construction of distribution/zonal water supply systems under surface ater project.</p> | ADC (UD)/Mu nicipal Corporati on/Cantt Board/UL Bs/JDA | | | 31.12.2025 | | | | | | | | | | | | | | |
| 6. | Utilization of | | ADC | | | Proposal-31.03.2022 | | | | | | | | | | | | | | |

| | | | | |
|----|--|--|--|-----------------------|
| | secondary sludge from STPs a. In agriculture fields b. In parks/green areas | Proposal is being made for utilization of secondary sludge | (D)/ADC (UD)/PW SSB/Department of Agriculture/Municipal Corporation/ULBs | Completion-31.03.2023 |
| 7. | Unauthorized outlets of untreated sewage into drains | All have been connected to sewer line. | Municipal Corporation/ULBs/DDPO | Already completed |
| 8. | Installaton of In-Situ Remediation Technology in the drains/ponds carrying untreated sewage not connected to STPs | The Punjab Pollution Control Board has installed pilot plant for bio-remediation based on "Nano Bubble Technology" at Bhulana drain carrying waste water of village Rawal & 27 no. coloes. | MC, Kapurthala | Regular Activity |

5.2 Management of Domestic sewage in Rural Areas

a. Current Status

| Detail of data requirement | Measurable outcome |
|--|--------------------|
| Total no. of Villages covered | 546 |
| No. of villages where Management of Domestic sewage is being carried out | 32 |
| No. of villages where Management of Domestic sewage is under process | 16 |
| No. of villages where Management of Domestic sewage is yet to start | 498 |

b. Identification of gap and action plan

| Sr. No | Action point | Gap and Action plan | Responsible agency | Timeline for |
|--------|-------------------------------|----------------------|--------------------|--------------|
| 1 | Nos of villages to be covered | Work is yet to start | Department of | Preparation |

| | | | | | |
|--|---|---|------------------|---|--|
| | in phase-1 and 2 :- 546 a) Source of funding | on site Swachh Mission, Commission & MGNREGA | Bharat Finance & | Rural Development and Panchayat /DDPO, Kapurthala/ADC (D) | of action plan -31.03.2022 Implementati on – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
|--|---|---|------------------|---|--|

5.3 Utilization of treated water of STPs

| Sr. No | Action point | Gap | Action plan | Responsible agency | Timeline |
|--------|--|-----------------|---|--|--|
| 1. | Utilization of treated sewage from STPs for irrigation purpose (During demand period as well as no demand period) | Gap-50% | Already being utilize for irrigation purpose. | ADC (UD)/ Department of Soil & Conservation/ Municipal Corporation/ULBs /PWSSB | Preparati on of irrigation scheme - 31.03.20 22 laying of sewerage network for utilizing treated sewage from STPs for irrigation purpose – 31.12.20 2 |
| 2. | Utilization of treated sewage from STPs for construction purpose | Gap-100% | Directions have been issued to all major | ADC (UD)/ ADC (D)/Municipal Corporation/ULBs /Cantt | Preparati on of action plan - |

| | | | | | |
|----|---|----------|---|---|---|
| | | | construction sites to use only treated water of STP for construction purpose. | Board/JDA/DDPO /Department of Rural Development and Panchayat | 31.03.2022 Implementation – 30.06.2024 |
| 3. | Utilization of treated sewage from STPs for sprinkling on roads to avoid road dust | 100% Gap | Tie up with nearest STP will be done for the arrangement of utilizing treated water with tankers. | ADC (UD)/ULBs/Cantt Board | 31.03.2022 |
| 4. | Utilization of treated sewage from STPs for plantation along the roads | 100% Gap | . Tie up with nearest STP will be done for the arrangement of utilizing treated water with tankers. | ADC (UD)/ULBs/Cantt Board | 31.03.2022 |

6.0 Industrial Waste Water Management

a. Current Status

| | |
|--|---|
| Number of Red, Orange, Green and White industries in the District | Red = 51 Orange = 420 Green = 131 |
| No of Industries discharging wastewater | 431 |
| Total Quantity of industrial wastewater generated | 9311.78 KLD |
| Quantity of treated industrial wastewater discharged into Nalas / Rivers | Direct = Nil |
| Common Effluent Treatment Facilities | Nil |
| No of Industries meeting Standards | 50 |
| No of Industries not meeting discharge Standards | 0 |

b. Identification of gaps and action plan for industrial waste water:

| S. No. | Action points | Gaps and Action Plan | Responsible agency | Timeline |
|--------|--|---|--------------------------------|------------------|
| 1. | Compliance to discharge norms by Industries | PPCB is regularly monitoring the compliance to the discharged norms by industries. All the effluent generated industry are either having individual | Punjab Pollution Control Board | Regular Activity |

| | | | | |
|----|-----------------------------------|--|--------------------------------|------------|
| | | ETPs or are connected with CETP. | | |
| 2. | Complaint redressal system | PPCB has already awarded the work of development of web Based Public Grievance Management and Redressal Portal (PGRP) for Punjab to NIC, New Delhi. The project was to be completed within two months at a cost of Rs. 5,05,040/-. Due to Lockdown situation in the State, the same has got extended. NIC has handed over the App for trial run to PPCB and the trial run has been successfully completed. The test link has been successfully run by all the regional offices of the Board. | Punjab Pollution Control Board | 30.09.2021 |

7.0 Mining Activity Management Plan

a) Current Status

| | |
|--|--|
| Type of Mining Activity | Sand Mining |
| No. of licensed Mining operations in the District | 1 No. Sand Mine and 2 No. Desilting site |
| % area covered under mining in the District | 4.62 Sq Km |
| Area of Sand Mining | 0.7539 Sq Km |
| Type of Sand Mining | River bed= 0.7539 Sq Km |

b. Identification of Gaps and action plan:-

| Sr | Action Points | Gaps and Action Plan | Responsibility | Timeline for Completion |
|----|--------------------------------------|--|----------------------------|---|
| 1. | Monitoring of Mining Activity | District Kapurthala level task team is identified to mining activity and AS per Punjab minor and mineral rule(PMMR) is enforced to all type of mining activity | Water Resources Department | Mining team already monitoring mining activities with district administration officials and Environment Directorate is also formed by Punjab Govt. to check illegal |

| | | | | |
|----|--|---|---|--|
| | | | | mining activities. |
| 2. | Inventory of illegal mining if any mining | Department of Administration, District Police and Dept. of mining and geology are co-ordination with these department. Anytime to intimate these department to reaction immediately and control the all situation . | Water Resources Department/Police department/ Department of Geology | Enforcement directorate is also formed by Punjab Govt. to check illegal mining activities. If any illegal mining comes in the notice of the department, immediate action is taken by the officials by lodging FIR's. |
| 3. | Environment compliance by mining projects | - | Punjab Pollution Control Board | Regular Activity |
| 4. | Demarcation of boundaries for regulating grant of sand mining lease. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | Demarcation of Mining lease has been carried out before granting the final approval to the contractor/leasee and the same has been checked on regular basis by concerned Revenue Department in presence of Mining Department by DGPS System. | Drainage Department | Demarcation has been done completed. Regular Activity |
| 5. | Mining in all blocks is undertaken as per provisions of EIA Notification, 2006; MOEF Notification dated 15.1.2016 and the Sustainable Sand Mining Management Guidelines, 2016. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | i. As per the guidelines, there is provision for obtaining E.C before commencement of mining. ii. According to the SSMMG, 2016 issued by MOEF&CC, mining work is restricted from riverbed during the monsoon season. (Thus in the month of July, August and September in the State.) | Drainage Department | Guidelines are being followed. Regular activity |
| 6. | No sand mining is permitted without due compliance of the Water | The conditions mentioned in the Environmental Cleanliness | Drainage Department | No Mining operations in the leveled river bed shall be carried out beyond the depth of 3 meters or |

| | | | | |
|-----|--|--|---------------------|--|
| | (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 as well as regulations governing clearances by the Central Ground Water Authority. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | Certificate issued by the State Level Environment Impact Authority (SEIAA), are being followed. No Mining operations in the leveled riverbed shall be carried out beyond the depth of 3 meters or water level whichever is less/lower. | | water level whichever is less/lower. Regular activity |
| 7. | District authorities shall seize all sump pumps, other machinery, tools, vehicles, etc. used for carrying out illegal sand mining. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | Machinery/vehicles/tools/sumps-pumps found on illegal mining spot is being seized by the Concerned Authorities and handed over to the Police Administration. | Drainage Department | No such illegal activities spotted/ found during inspections. Whenever any illegal activities are spotted/ found the FIR is lodged with Hon'ble NGT rules. Regular activity |
| 8. | Any penalty imposed or not by concerned Department to cover the restoration cost of environment and to compensate the victims. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | While examine the illegal mining spot penalty imposed by the concern department by following the proper guidelines laid by Govt./Hon'ble NGT from the land owners and the Machinery owners. | Drainage Department | NGT guide lines 19/6/2020 are asked to Police officials to implement while doing FIR's. Regular activity |
| 9. | Status of a detailed restoration plan for the concerned river and its river beds. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | Mining work is being done on basis of approved mining scheme by including the restoration plan in the mining plan which is recommended by Concerned Mining Officer & approved by State Geologist, Pb. | Drainage Department | Mining work is being done on basis of approved mining scheme by including the restoration plan every year during flood/ Monsoon season the river bed mining sites get accomplished. Regular Activity |
| 10. | Status of CCTV Cameras installation at mining points to | CCTV cameras has been installed at mining points and | Drainage Department | Installed |

| | | | | |
|-----|--|--|---|---|
| | verify the amount of sand extracted. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | integrated with Govt. Web-Portal. | | |
| 11. | Status of regular patrolling by the police to inspect the mining operations. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | Police patrolling is being done on regular basis. | Police Department | Regular checking are being done with Police & revenue department. Whenever any illegal activities are spotted/ found the FIR is lodged with Hon'ble NGT rules. Regular activity |
| 12. | Status of daily reports regarding mining to be filed by SHO/ Mining officer to be sent to District Magistrate. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | Regular checking's and inspections are conducting for prevention of illegal mining activity in District by the Special Flying squads time to time and when required & for daily patrolling/checking and regular checking's the report has been sent to DC/DM/DMO. | Police Department & Drainage Department | Being followed. |
| 13. | Status of vehicles confiscation. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | In Compliance of the Rules and Guidelines laid down by State Govt. & Hon'ble NGT Total 451 FIR's has been lodged under the jurisdiction of District Ludhiana and total 655 No's Vehicles has been impounded by the Concerned Officials during the period of 01/2018 to 06/2021 | Police Department & Drainage Department | NGT guide lines 19/6/2020 are asked to Police officials to implement while doing FIR's. Regular activity. |
| 14. | Status of setting up of dedicated institutional mechanism for monitoring of conditions of Environmental Clearance as granted under EIA | The process for establishment of Monitoring System in the State by the Head Office, Water Resources Department, Pb. Chandigarh is under process, Publication | Drainage Department | Tender has been done, time of completion 31.10.2023. |

| | | | | |
|-----|--|--|---------------------|---|
| | Notification, 2006 in respect of sand and gravel mining. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | for tender has been done the Head Office. | | |
| 15. | Necessary steps to be taken by District Administration for the effective monitoring mechanisms for preventive and remedial measures including surveillance system for recovery of compensation. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | District Administration has constituted Flying Squad Teams for regular checking's and inspections for proper monitoring the illegal mining activity in District & Night Duty Roaster of Diff. Department Official's has been prepared for Night time Inspection has been prepared on monthly basis by District Administration Moreover, The process for establishment of Monitoring System in the State by the Head Office, Water Resources Department, Pb. Chandigarh. | Drainage Department | District Administration has constituted Flying Squad Teams for regular checking's and inspections for proper monitoring the illegal mining activity in District Kapurthala. Regular activity |
| 16. | Electronic surveillance through UAVs/Remote Sensing is a good surveillance option especially in areas where sand mafias are active. Night vision drones could be used for checking mining activity at night. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | The process for establishment of Monitoring System (Electronic Surveillance through UAVs/Remote Sensing) in the State by the Head Office, Water Resources Department, Pb. Chandigarh is under process, Publication for tender has been done the Head Office. | Drainage Department | Tender has been done, time of completion 31.10.2023. |
| 17. | Sensitive spots need to be identified and police presence- | Police presence- both static presence and dynamic | Police Department | No such spot has been found where on regular basis illegal mining |

| | | | | |
|-----|--|---|---------------------|---|
| | both static presence and dynamic patrolling needs to be beefed up there. DMs / SSPs be made directly responsible for checking illegal mining. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | patrolling is being done on sensitive spots. | | activities are being carried out. Regular Activity |
| 18. | Storage Godowns should be at least 5 kms away from the river bank. Otherwise, illegal mining can be carried on under the garb of storage by the leaseholder himself. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | The storage godowns/ stock yards established outside the river bank and maximum storage godowns more than 5kms from the pit site, after proper demarcation and assessment of the minor mineral with the help of revenue department, pillaring/ fencing of the storage/stock yard is done on site and enteries of that storage/stock is entered in Govt. Portal. However, during the upcoming moonsoon season more effective measures will be taken up for compliance of this guideline. | Drainage Department | Stockyard of mines sites are always outside the Bandh/ river bed. Regular Activity |
| 19. | Geo-fencing of sites, their physical demarcation, allotment of geo-coordinates to all the pillars and their constant physical inspection and electronic surveillance is a must to ensure that the mining activity is as per the approved | Demarcation of Mining lease has been carried out before granting the final approval to the contractor/leasee and the same has been checked on regular basis by concerned Revenue Department in presence of Mining and pillaring is | Drainage Department | Geo-fencing of mining site along with allotment of geo coordinates to all the pillars in river sand mining shall be made 30.06.2022 |

| | | | | |
|-----|---|---|---------------------|--|
| | mining plan and no illegal mining, detrimental to environment, is going on. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | carried out on site to ensure that mining activity is as per the approved mine plan. however geofencing of sites has not been carried out. | | |
| 20. | There has to be a mechanism to ensure that the actual mining activity conforms to the approved Mining Plan and the approved Environment Management Plan (EMP). Besides the statutory system of Departmental inspections, there has to be a system of annual mandatory Environmental Audit by experts. Environment Department can empanel some experts/expert institutions with standard TORs and Remuneration terms which could be utilized by the Mines Department on a regular basis. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | In state of Punjab, a Govt. Web Portal has been introduced for the transparent function of extraction/ transportation/ sale of minor mineral. In which the record of extraction is maintained and a team of experts audits this system annually. To bring the transparency in system, each weightment slip provided to the transportor, contains a QR Code & can be scanned by any smartphone available in market, to get the desired information of the minor mineral. | Drainage Department | In state of Punjab, a Govt. Web Portal has been introduced for the transparent function of extraction/ transportation/ sale of minor mineral. In which the record of extraction is maintained and a team of experts audits this system annually. To bring the transparency in system, each weightment slip provided to the transportor, contains a QR Code & can be scanned by any smartphone available in market, to get the desired information of the minor mineral. Regular Activity |
| 21. | There has to be an effective mechanism for restoration of environment in case of its degradation due to mining. A portion of the royalty could be reserved for it as Environment Restoration Fund. The Environment | At present stage no such problem or situation occurs in District Ludhiana & during the mining activity in Agricultural/non riverbed mine area, the plantation is being carried out in the land under the | Drainage Department | 31.12.2021 |

| | | | | |
|-----|--|--|----------------------------|--|
| | <p>Department can empanel some reputed institutions with standard terms for preparing environmental restoration plans which could be used directly by the Mining Department without the arduous formalities. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)</p> | <p>mine lease if it belong to the state/central Govt., & where-ever the land belongs to the private land owners the crops/farming is being done by the owners, so that the land with sandy strata is converted into the fertile land by removing the sand in such land.</p> | | |
| 22. | <p>States/UTs to strictly follow the SSMG-2016 read with EMGSM-2020 reinforced by mechanism for preparation of DSRs. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)</p> | <p>The DSR of District Kapurthala has already been made. During the action against illegal mining activity, if any type of vehicle (Tractor Trolley/Truck/Tipper /JCB/Poclaim/ other vehicle) got impounded/seized during the action, after the proper legal procedure taken by the concerned department the such vehicle is released.</p> | <p>Drainage Department</p> | <p>DSR is made. Regular Activity</p> |
| 23. | <p>Annual reports on the subject and such annual reports may be furnished to MoEF & CC by 30th April every year giving status till 31st March. First such report as on 31.03.2022 may be filed with the MoEF&CC by all the States/UTs on or before 30.04.2022. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)</p> | <p>Needful will be done.</p> | <p>Drainage Department</p> | <p>30.04.2022</p> |

c. Monitoring activities:

| Sr. No | Action point Monitoring activity | Gap and Action plan | Responsible agency | Timeline for |
|---------------|---|--|----------------------------|--------------------------------------|
| 1 | Area identified for mining like flood plain area / river/ any other land form. | River Bed Sutlej 1 No. Mines and 02 no. Desilting Sites. (0.7539 Sq. km.) | Water Resources Department | 3 years for mining sites of Block 5. |
| 2 | Existing Area where mining is being done like flood plain area / river/ any other land form | River Bed | Water Resources Department | 3 years for mining sites of Block 5. |
| 3 | Proposed area where mining is to be done like flood plain area / river/ any other land form | River Bed of Sutlej in Kapurthala Jurisdiction. | Water Resources Department | No Proposal |
| 4 | Nos of mining sites allocated | 1 no. mine and 2 no desilting site allotted to Block No.5. 1. Safdarpur Sand Mine 2. U/S Goindwal Bridge at Village Amritpur Desilting Site 3. Mand Rampur Desilting Site (At present all not operational) temporary suspended by the concerned noddle officer cum DMO Amritsar due to Non payment of Due Installments. | Water Resources Department | 3 years for mining sites of Block 5. |
| 5 | Staff strength of enforcement wing to monitor mining sites. | 1 DMO, 1 ADMO and 1 mining inspector along with Police Department and revenue Department. | Water Resources Department | Till Posting |
| 6 | Steps taken to avoid over extraction of sand and indiscriminate sand mining | Over extraction of sand is not allowed as per new Punjab govt. web portal. If any illegal mining comes in the notice of the department, immediate action is taken by the officials by lodging FIR's. | Water Resources Department | Regular activity |
| 7 | Demarcation of mining sites. | Demarcation done for all sites. | Water Resources Department | Activity completed |
| 8 | GPS enabled vehicles utilized for transportation | Asked to contractor to make sure that GPS | Water Resources Department | 30.6.2022 |

| | | | | |
|---|---|---|----------------------------|--------------------|
| | of mined material | should be installed in all vehicles that comes to mining sites. | | |
| 9 | CCTV cameras at all the vulnerable points | CCTV's installed at Mining sites. | Water Resources Department | Activity completed |

* Allowing one entry and one exit at each mining site and in case there is cluster of mining sites, one entry and one exit gate may be provided for each cluster.

* Following sustainable sand mining guidelines, 2016 and enforcement and monitoring guidelines for sand mining, 2020 by the Department of Mining.

8.0 Noise Pollution Management Plan

a. Current Status

| Details of Data Requirement | Measurable Outcome |
|--|--------------------|
| No. of noise measuring devices available with various agencies in district | PPCB = 01 |

b. Identification of gaps and action plan:

| Sr. No. | Action points | Gaps and Action Plan | Responsible agency | Timeline |
|---------|---|---|--|--|
| 1. | Availability of Sound/Noise Level Meters. | 01 noise level meter is available with PPCB in the district. one noise level meter should be available by each SHO and one by each MCs /NPs however currently no noise meter is available with any SHO / MC/NP | Police Department /Punjab Pollution Control Board/ULBs. Police Department | 31.12.2022 - |
| 2. | Ambient Noise Level monitoring. a. Near notified silience zone b. Checking of pressure horns in vehicles and motorcycle for illegal "Pataka siliencer" | It will be done with co-operation of Municipal Corporation, Kapurthala. Continous exercise | Police Department/ULB Police Department | Regular Activity Regular Activity |
| 3. | Signboards in Noise zones | In Kapurthala city 30 no. of no horn sign boards have been already fixed in front | Municipal Corporation Kapurthala/Phag | 31.08.2022 |

| | | | | |
|----|------------------------------------|--|--------------------------------|------------|
| | | of schools & hospitals & 20 no. more sign boards are required. | wara | |
| 4. | Complaint redressing system | PPCB has already awarded the work of development of web Based Public Grievance Management and Redressal Portal (PGRP) for Punjab to NIC, New Delhi. The project was to be completed within two months at a cost of Rs. 5,05,040/-. Due to Lockdown situation in the State, the same has got extended. NIC has handed over the App for trail run to PPCB and the trail run has been successfully completed. The test link has been successfully run by all the regional offices of the Board. | Punjab Pollution Control Board | 30.09.2021 |

9.0 Solid Waste Management and Sewage Treatment of illegal colonies in Distt. Kapurthala

a. Current Status

| Detail of data requirement | Measurable outcome |
|--|--|
| No. of illegal colonies | 179 |
| Total quantity of sewage generation from these colonies | 1.85 MLD (sewage generated by present population which is about 15.63% of population at 100% occupation in colonies) |
| Total quantity of sewage for which sewage treatment plant provided | Nil |
| Total quantity of sewage for which sewage treatment plant under installation | Nil |
| Total quantity of sewage for which sewage treatment plant is yet to be provided | 11.84 MLD (at 100% occupation in colonies) |
| Total quantity of solid waste being generated from these colonies | 7.288 MTD (Solid waste generated by present population which is about 15.87% of population at 100% occupation in colonies) |
| Total quantity of solid waste being properly handled/processed/dumped in scientific manner | 0.45 MTD |
| Total quantity of solid waste for which action is under process properly handled/processed/dumped in scientific manner | Nil |

| | |
|---|-----------|
| Total quantity of solid waste for which action is yet to start for proper handling/process/dumping in scientific manner | 6.838 MTD |
|---|-----------|

b. identification of gap and action plan

| Sr.No | Action point | Gap | Action plan | Responsible agency | Timeline for |
|-------|--|------------|--|--------------------|--------------|
| 1 | Underground sewage network | 50 % Gap | Phase 1: 145 colonies will be Covered in the first phase Phase 2: Rest of the colonies will be Covered in the first phase | JDA Jalandhar | 31/12/2022 |
| 2 | Connection of sewerage system with STP | 100 % Gap | | JDA Jalandhar | 31/12/2023 |
| 3 | Compliance to discharge norms by colonies | 100% Gap | | JDA Jalandhar | |
| 4 | Compliance to solid waste management Rules by colonies | 96.23% Gap | | JDA Jalandhar | |

1. Unauthorized colony is regularized.

2. Loan amounting to Rs. 50.00 crore given to Govt. From the regularization fees received from plot holders falling in these colonies, will be recovered from Govt.

3. As per policy of unauthorized colony the expenditure shall be incurred only if minimum 50% plot holders have deposited the development charges and regularization fees. The directions regarding this condition of policy has also been sought from the Govt.

10.0 Rain Water Harvesting

10.1 Rain Water Harvesting Structures in Urban Areas.

| Sr. No | Action point | Gap and Action plan | Responsible agency | Timeline for |
|--------|-------------------|--|-----------------------|--|
| 1 | Source of funding | As per the provisions in the PB Municipal Building Bye Law-2018 Chapter X. Rain water Harvesting is mandatory as below: Resi: All maps more than 100 Mt area. Comm: All Maps Flats: All Institution: All Industrial: All. Municipal Corporation takes Rs. 2 Lacs as security Fee from all | Municipal Corporation | As per PB. Building Bye Laws. Three years time is given to all sanctioned Maps for completion of their respective Buildings and one-year Extension period has also |

| | | | | |
|---|--|--|-----------------------------|-----------------------------|
| | | the non Resi Maps area having more than 500 sq.yds. At the time of completion certificate, if RWH is not provided 2 Lac Rs. is seized by the MCJ and CC shall not be issued. It has been observed that some Nodal Agency/Department be the part of this plan as (B&R) (PPCB) for the construction of that RWH with security @ Rs. 2 Lac, which is laying with Municipal Corporation. | | been given as per Bye Laws. |
| 2 | Identification of existing ponds/water bodies (not containing waste water) | Don't Exist in M.C.J limits. | MC Kapurthala/ADC (UD)/JDA | Not required |
| 3 | Timelines for completion of enhancement/remodeling/re development of existing ponds/water bodies | -Do- | MC Kapurthala /ADC (UD)/JDA | Not required |
| 4 | Creation of new pond | -Do- | MC Kapurthala /ADC (UD)/JDA | Not required |

10.2 Rain water harvesting structures in villages

a. Current Status

| Detail of data requirement | Measurable outcome |
|--|--------------------|
| Total nos of villages where rain water harvesting is required | 546 |
| No. of buildings in villages where rain water harvesting structures are provided | 0 |
| No. of buildings in villages where rain water harvesting structures are under installation | 0 |
| No. of buildings in villages where action for providing rain water harvesting structures is yet to start | 546 |

b. identification of gap and action plan

| Sr.No | Action point | Gap and Action plan | Responsible agency | Timeline for |
|-------|--|------------------------------------|--|---|
| 1 | Nos of villages to be covered in phase-546 | 245 structures in each 68 villages | ADC (D)& DDPO, Kapurthala/Soil & Conservation department | Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |

11.Faecal and septage Sludge Management in villages

a. Current Status

| Detail of data requirement | Measurable outcome |
|---|--------------------|
| Total nos. of villages | 546 |
| No. of villages where Faecal Sludge Management & Management of Solid Waste is being carried out | 0 |
| No. of villages where Faecal Sludge Management & Management of Solid Waste is under process | 0 |
| No. of villages where Faecal Sludge Management & Management of Solid Waste is yet to start | 546 |

b. identification of gap and action plan

| Sr.No | Action point | Gap and Action plan | Responsible agency | Timeline for |
|-------|--|--|--|---|
| 1 | Nos of villages to be covered in phase-1 and subsequent phases | State level policy matter and time target for framing of policy will be informed after taking up matter at higher level. | ADC (D)/DDPO/Department of Rural Development and Panchayat | Preparation of Policy -31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |

List of Nodal Officer of the Various Stake Holder Departments

| Sr No. | Name of the Department | Nodal Officer Name | Designation | Mobile no. |
|---------------|---|---------------------------|-----------------------|-------------------|
| 1. | Municipal Corporation, Phagwara | Sh. Raghav Verma PCS | Commissioner Corp | 9872138015 |
| 2. | Department of Rural Development and Panchayati | Sh. Neeraj Kumar | DDPO | 9856960332 |
| 3. | Jalandhar Development Authority, Jalandhar | Sh. Yadwinder Singh | XEN | 9779918189 |
| 4. | Punjab Pollution Control Board | Sh. Tejinder Kumar | SEE | 9878950516 |
| 5. | Police Department | Sh. Jasvir Singh PPS | S.P. Hqrs. Kapurthala | 9876227626 |
| 6. | Department of Soil & Water Conservation, Jalandhar | Sh. Lupinder Kumar | ASCO | 9888494101 |
| 7. | Punjab Water Supply & Sewerage Board, Jalandhar | Sh. Rajwinder Gill | SDO | 7589200410 |
| 8. | Department of Water Resources & Drainage, Jalandhar | Sh. Garcha Singh | XEN, Mining | 9814672476 |
| 9. | Agriculture Department, Jalandhar | Sh. Sushil Kumar | CAO | 8872053160 |
| 10. | PSIEC, Jalandhar | Sh. Kamaljit Singh | SDO | 9814256816 |
| 11. | Nagar Panchayat, Bholath | Sh. Charan Dass | Executive Officer | 8360001221 |
| 12. | Nagar Panchayat , Begowal | Sh. Daljeet Singh | Executive Officer | 6280200678 |
| 13. | Nagar Panchayat , Nadala | Sh. Rajesh Khosla | Executive Officer | 9815631770 |

| | | | | |
|-----|------------------------------------|--------------------------|-------------------|------------|
| 14. | Nagar Panchayat , Dhilwan | Sh. Chander Mohan Bhatia | Executive Officer | 9888236557 |
| 15. | Municipal Council, Sultanpur Lodhi | Sh. Kamaljit Singh | Executive Officer | 9814322733 |
| 16. | Municipal Council, Kapurthala | Sh. Adarsh Kumar | Executive Officer | 9417409448 |