



PUNJAB POLLUTION CONTROL BOARD

ਪੰਜਾਬ ਪ੍ਰਦੂਸ਼ਣ ਰੋਕਥਾਮ ਬੋਰਡ



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ਨੰਬਰ.. 2317

ਮਿਤੀ: 09-08-2022

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/2022/978 dated 24.05.2022.

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 20.05.2022 in the Committee Room of District Administrative Complex, Kapurthala to review the action taken on the activities mentioned in 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 as provided by the stakeholder departments 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

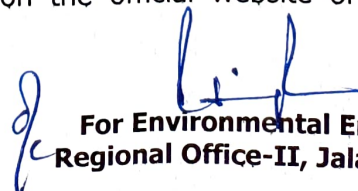

**For Environmental Engineer
Regional Office-II, Jalandhar**

Ends. No. 2318-21

Dated 09/08/2022

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.


**For Environmental Engineer
Regional Office-II, Jalandhar.**

Minutes of the meeting of the District Environment Committee meeting held on 28/07/2022 at 10:30 AM under the Chairmanship of Additional Deputy Commissioner (UD), Kapurthala to review the Action taken on the activities as mentioned in District Environment Plan of District Kapurthala and other thematic environmental issues related to District Kapurthala.

At the outset, Environmental Engineer welcomed the officers of Stakeholder Departments on behalf of Worthy Additional Deputy Commissioner, Kapurthala (UD). Thereafter, Additional Deputy Commissioner (UD) has asked the Stakeholder Departments to present their progress report on the basis of decisions taken during the previous meeting of District Environment Committee held on 29.06.2022 of District Kapurthala to review the action taken on the activities as mentioned in the District Environment Plan of District Kapurthala in compliance to order dated 08.02.2022 in OA no. 360 of 2018 in the matter of Shree Nath Sharma v/s Union of India and Ors.

1. Solid Waste Management

| S. No. | Activity | Revised timelines given by Chairman, NGT MC | Decision Taken During the Meeting |
|--------|---|---|---|
| 1.1 | Segregation of solid waste | 31.12.2022 by all MCs. | ADC (UD) noted the progress submitted by the various local bodies of the district in this regard and directed to achieve the targets as per the timelines as prescribed by NGT Monitoring Committee. EO, MC, Kapurthala informed that they have placed order for the 2nd trolley and the same shall be installed shortly. ADC (UD) directed MC, Kapurthala to adhere to the timeline or shall procure the 2nd trolley on rent basis. |
| 1.2 | Waste Collection: - Waste collection trolleys with separate compartments. | Adequate no. of vehicles with separate compartments to be provided by M.C, Kapurthala by 31.08.2022 . | |
| 1.3 | Waste Deposition Centre (For domestic Hazardous Waste) | Waste Deposition Centre for domestic Hazardous Waste to be provided by M.C Phagwara by 31.08.2022 . One additional compartment may be added in the compartmentalized rickshaw rehri/solid waste collection vehicle for collection of domestic hazardous waste by all the MCs and the waste so collected may be stored in the separate cabin at the material recovery site and same may be disposed of as per the provisions of the HWM Rules, 2016 and BMW Rules, 2016. | MC, Phagwara was not present in the meeting and as such the progress could not be reviewed. ADC (UD) noted the progress submitted by the various local bodies of the district in this regard and directed to achieve the targets as per the timelines as prescribed by NGT Monitoring Committee |

| | | | |
|-----|---|--|---|
| 1.4 | Waste Transfer Points (Secondary points) | All the MCs shall provide boundary wall and green belt around the waste transfer point or provide solid waste storage bin with separate compartments for storage of wet and dry waste by 30.09.2022 . | ADC (UD) noted the progress submitted by the various local bodies of the district in this regard and directed to achieve the targets as per the timelines as prescribed by NGT Monitoring Committee. |
| 1.5 | On-site composting by bulk waste generators (BWGs) | Adequate no. of compost pits by bulk waste generators may be got provided by the concerned MC and Cantonment Board by 31.08.2022 and necessary agreement for lifting and management of dry waste generated by bulk waste generators shall be made by each MC by 30.06.2022 . | The ULBs informed that they don't have any bulk waste generator as per the definition given in Solid Waste Management Rules, 2016. The ADC (UD) directed the ULBs to submit updated information so that the same may be incorporated in the revised DEP. |
| 1.6 | Composting of wet waste | MC Kapurthala, Phagwara and Begowal shall provide adequate no. of compost pits for treatment of wet waste by 31.12.2022 . Proper record regarding quantity of wet waste put into the compost pits, quantity of manure produced, quantity of manure given to the farmers or distributed free of cost among the society or utilized in the parks may be maintained by all MCs. | EO, MC, Kapurthala submitted that they have provided 68 compost pits against the total requirement of 128 pits. The other ULBs informed that they have already provided adequate number of compost pits. ADC (UD) noted the progress submitted by the various local bodies of the district in this regard and directed to achieve the targets as per the timelines as prescribed by NGT Monitoring Committee. He further directed that the present progress along with factual and representative data be mentioned in the District Environment Plan by all the ULB's against each activity, so that actual figures are portrayed in the District Environment Plan. |
| 1.7 | Dry Waste Management: Material Recovery Facilities (MRFs) | MC Kapurthala and Phagwara shall provide adequate no. of MRFs to manage dry waste by 31.08.2022 . | All the ULBs informed that they have provided adequate number of MRFs. The ADC (UD) directed the ULBs to submit updated information so that the same may be incorporated in the revised DEP. |

| 1.8 | Remediation of historic/legacy dump site | Quantity of legacy waste lying dumped at dump site may be assessed by all MCs by 30.06.2022 and 100% legacy waste may be remediated by 31.12.2022 . | <p>The ULBs informed that the assessment of legacy waste has been done and requested for change in timeline for remediation of legacy waste as under:</p> <table border="1" data-bbox="1862 272 2615 597"> <thead> <tr> <th>S No.</th> <th>ULBs</th> <th>Timeline</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>MC Kapurthala</td> <td>31-12-2023</td> </tr> <tr> <td>2.</td> <td>MC Phagwara</td> <td>31-12-2023</td> </tr> <tr> <td>3.</td> <td>NP, Bholath</td> <td>30-06-2023</td> </tr> <tr> <td>4.</td> <td>NP, Dhilwan</td> <td>30-06-2023</td> </tr> <tr> <td>5.</td> <td>NP, Nadala</td> <td>30-06-2023</td> </tr> <tr> <td>6.</td> <td>NP, Begowal</td> <td>30-06-2023</td> </tr> <tr> <td>7.</td> <td>MC, Sultanpur Lodhi</td> <td>31-12-2023</td> </tr> </tbody> </table> <p>The ADC (UD) directed that a request letter may be written to the NGT Monitoring Committee for considering the timelines given by the ULBs.</p> | S No. | ULBs | Timeline | 1. | MC Kapurthala | 31-12-2023 | 2. | MC Phagwara | 31-12-2023 | 3. | NP, Bholath | 30-06-2023 | 4. | NP, Dhilwan | 30-06-2023 | 5. | NP, Nadala | 30-06-2023 | 6. | NP, Begowal | 30-06-2023 | 7. | MC, Sultanpur Lodhi | 31-12-2023 |
|-------|--|---|---|-------|------|----------|----|---------------|------------|----|-------------|------------|----|-------------|------------|----|-------------|------------|----|------------|------------|----|-------------|------------|----|---------------------|------------|
| S No. | ULBs | Timeline | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | MC Kapurthala | 31-12-2023 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | MC Phagwara | 31-12-2023 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | NP, Bholath | 30-06-2023 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | NP, Dhilwan | 30-06-2023 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | NP, Nadala | 30-06-2023 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6. | NP, Begowal | 30-06-2023 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7. | MC, Sultanpur Lodhi | 31-12-2023 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.9 | EPR of Producers/brand owners | Brand Owners/producers shall be pursued to start collecting and disposing of plastic waste by 30.09.2022 . | ADC (UD) directed Punjab Pollution Control Board and MC, Kapurthala & Phagwara to ensure that Brand Owners/producers starts collecting and disposing of plastic waste by 30.09.2022 in accordance with the timelines prescribed by NGT Monitoring Committee. | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.10 | Removal of garbage vulnerable points(GVPs) | All the GVPs shall be removed by all MCs by 31.08.2022 and vacant places after removal of the GVPs may be converted into useful usages like park, playground, green area etc by 30.09.2022 . | ADC (UD) noted the progress submitted by the various local bodies of the district in this regard and directed to achieve the targets as per the timelines as prescribed by NGT Monitoring Committee | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.11 | Provision of green belt and boundary wall around legacy waste dump site. | Boundary wall and green belt/plantation around the legacy waste dump site may be provided by all MCs by 30.10.2022 . Municipal Corporation, Phagwara shall provide boundary wall between the drain and solid waste dumping site so as to avoid the entry of solid waste into drain within 6 weeks and the pipe carrying leachate of solid waste dump site into drum may be removed within 03 days . | Some of the ULBs informed that they don't have enough funds for construction of boundary wall as the area of dump sites is vast. ADC (UD) advised that the Boundary wall may be provided for smaller part of dump site which has actually been utilized and barbed wire may be provided as an interim measure and green belt/plantation around the legacy waste dump site may be provided by all MCs. | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|------|--|---|--|
| 1.12 | Action Plan for treatment of leachate generated from legacy waste dump site. | Deputy Commissioner, Kapurthala shall review the issue regarding treatment of leachate generated from the legacy waste dump site of each MCs either in the cluster form or individually or other methods with the concerned Executive Officers of all the MCs, PWSSB and PPCB and any other concerned Department within 15 days. A scheme/proposal for treatment of leachate generated at legacy waste dump site may be prepared by 31.08.2022 and treatment mechanism may be provided by each MC by 31.12.2022 . | The ULBs informed that a study is been done by NIT Jalandhar, in this regard and further action will be taken accordingly. ADC (UD) directed to achieve the targets as per the timelines as prescribed by NGT Monitoring Committee. |
| 1.13 | CCTV cameras and Piezometers to be installed at solid waste dumping site | CCTV cameras and Piezometers at solid waste dumping site may be provided by all MCs by 31.08.2022 and these CCTV cameras may have their connectivity with District Administration and PPCB by 31.10.2022 . | ADC (UD) noted the progress submitted by the various local bodies of the district in this regard and directed to provide the CCTV Cameras, immediately after the boundary wall has been provided. |
| 1.14 | Carcass should be utilized by adopting regarding process or incineration and priority may be given to carcass utilization plans | Short term measures like provision of boundary wall, green belt, plantation and hedges etc. at the carcasses disposal site may be provided by 31.10.2022 . | The ULBs informed that they don't have any Hada Rori, as there are no dairy plants within the MC. limits. ADC (UD) directed that ULBs to make agreements with nearby Rural Panchayat for disposal of carcass, if any. |
| 1.15 | Managements of wastewater and solid waste by the unauthorized colonies/residential complex/commercial complex developed by Private Colonizers. | MCs shall make agreement with unauthorized colonies for management of solid waste with suitable user charges to be paid by unauthorized colonies by 31.08.2022. JDA shall pursue the unauthorized colonies/commercial complex existing outside MC areas to install STPs and Sewerage system for treatment of waste water and for management of solid waste, the necessary agreement shall be got made with the concerned MCs with suitable user charges. | JDA informed that for colonies near LPU survey has been done and an STP of 6 MLD is required to be installed. For colonies in Rawal area an STP is being established by Sewerage Board. ADC (UD) directed that JDA shall submit detailed status regarding the management of waste water and management of solid waste in colonies located near Lovely Professional University (LPU), Phagwara along with timelines. ADC (UD) directed the District Soil Conservation Officer to prepare irrigation plans for reutilization of treated water from above STP. |

2. C & D Waste Management

| S.No. | Activity | Revised timelines given by Chairman, NGT MC | Decision during the current meeting |
|-------|--|--|---|
| 2.1 | C & D recycling facility and usage of recycled C & D waste | All the MCs shall install small C & D waste crushing machinery along with pollution control system by 31.08.2022 and thereafter C & D recycling facility may be provided by 31.12.2022 . | All the ULBs informed that they have provided C&D waste crushing machine and have started recycling of C&D waste. ADC (UD) noted the progress submitted by the various local bodies of the district in this regard and directed to achieve the targets as per the timelines as prescribed by NGT Monitoring Committee. |

3. Bio-Medical Waste Management

| S.No. | Activity | Revised timelines given by Chairman, NGT MC | Decision during the current meeting |
|-------|-----------------------------|--|--|
| .1 | Wastewater treatment Plants | PPCB may explore the possibility of getting join the small HCFs for treatment of their waste water in the effluent treatment plant installed by the nearby big hospital with suitable user to be paid to the big hospital by 30.06.2022 . | Punjab Pollution Control Board officials informed that all the hospitals above 50 beds have provided individual ETPs. And remaining 97 bedded hospitals have provided pretreatment within the premises and most of them are connected to city STP network. Action as per provisions of BMW Rules has been initiated remaining HCFs located outside MC limits to install their individual treatment plants. ADC (UD) noted the progress in this regard. |

4. E-Waste Mangement

| S.No. | Activity | Revised timelines given by Chairman, NGT MC | Decision during the current meeting |
|-------|--|--|---|
| 4.1 | Inventory/generation of e-waste/bulk waste generators, linkage among stakeholders to channelize e-waste and integration of informal sector | Inventory of e-waste generator, linkage among stake holders to channelize e-waste and integration of informal sectors may be completed/made by 30.09.2022 . | ADC (UD) directed that Inventory of e-waste generator, linkage among stake holders to channelize e-waste and integration of informal sectors may be completed/made by all ULB's by 30.09.2022 . The e-waste collected may be sent to authorized recycler at Jalandhar after making agreement in this regard. |

5. Air Quality Management

| S.No. | Activity | Revised timelines given by Chairman, NGT MC | Decision during the current meeting |
|-------|--------------------------|---|---|
| 5.1 | Ambient air quality data | 2 no. manual ambient quality monitoring stations may be set up by PPCB by 30.06.2022 . | Punjab Pollution Control Board officials informed that 2 no. manual ambient air quality monitoring stations have been allotted and request has been send to the higher authorities for allocation of necessary staff. ADC (UD) noted the progress submitted by the Punjab Pollution Control Board and directed to install the monitoring stations at the earliest. |

6. Water Quality Management

| S.No. | Activity | Revised timelines given by Chairman, NGT MC | Decision during the current meeting |
|-------|---------------------------|---|---|
| 6.1 | Inventory of Water Bodies | Inventory of water bodies may be prepared by theDepartment of Irrigation and Department of Rural Development and Panchayat by 31.07.2022 . | The inventory of water bodies was submitted by the Department of Irrigation during the meeting. ADC (UD) directed that Inventory of water bodies/ponds may be prepared by the Department of Rural Development and Panchayat by 31.08.2022 . |

7. Rejuvenation of Ground water setting up of additional water bodies/water harvesting structure

| S.No. | Activity | Revised timelines given by Chairman, NGT MC | Decision during the current meeting |
|-------|---|---|--|
| 7.1 | Rejuvenation of Ground water setting up of additional water bodies/water harvesting structure | Deputy Commissioner, Kapurthala shall hold meetings with concerned departments within 15 days and prepare a proposal/scheme for rejuvenation of groundwater based on the points and same may be started implementing by 30.09.2022 . | ADC (UD) directed that a review meeting may be fixed within a week for discussion of proposal/scheme for rejuvenation of ground water and implementation of the scheme. |
| 7.2 | Reuse of treated wastewater of the towns for agricultural purpose | Department of Soil & water conservation shall prepare irrigation schemes to utilize the treated sewage of STPs for irrigation by 31.08.2022 and irrigation schemes may be laid simultaneously with the completion of STPs of the towns. | The District Soil Conservation Officers informed that all the utilization schemes are working except at Kapurthala, as the pipeline is broken/damaged. ADC (UD) directed EO, KPT to put up an estimate in this regard within 15 days. |

Other Thematic Areas

1. Review of preparedness to control stubble burning during forthcoming paddy season – 2022:

| No. | Activity | Decision during the current meeting |
|-----|--|---|
| 1. | Secretary, Science, Technology & Environment has taken meeting with ADCs of the State on 19.05.2022 wherein SSTE informed that State had prepared Action Plan for control of burning of crop residue and roles/ responsibilities of each Department has been defined in the Action Plan. It is further informed that Nodal officer and cluster officer for each village shall be appointed as per mandate of Action Plan. Further a meeting to review the action taken by various stake holder departments on the activities mentioned in the Action Plan has been tentatively scheduled to be held under the chairmanship of Hon'ble Chief Secretary to the State of Punjab on 30.06.2022. | ADC (UD) directed that IEC activities including awareness camps may be organized all over the districts in the month of August for spreading awareness among the farmers. |

2. Status of compliance of STP's of District Kapurthala

| S No. | Name of STP | Capacity | Whether achieving the parameters | Decision taken during the meeting |
|-------|-------------------------|----------|-----------------------------------|--|
| 1. | STP Kapurthala | 25 MLD | Yes | EOs of Bholath & Sultanpur Lodhi ensured proper chlorination so that the F.coli parameter remains within the prescribed limits. ADC (UD) also directed that all other MC's/NP's shall maintain and operate its sewerage treatment plant (STP) regularly and efficiently, so as to achieve the effluent standards, consistently as prescribed by the Board and shall also not discharge its treated/untreated effluent into Holy Bein. |
| 2. | STP Begowal | 2.5 MLD | Yes | |
| 3. | STP Bholath | 4 MLD | Yes except F.coli 2800 MPN/100 ML | |
| 4. | STP Sultanpur Lodhi | 2.6 MLD | Yes except F.coli 4900 MPN/100 ML | |
| 5. | STP Hadiabad Phagwara | 8 MLD | Yes | |
| | STP Phagwara | 20 MLD | Yes | |
| | STP Phagwara Plahi Road | 8 MLD | Yes | |

The ADC (UD) directed the Punjab Pollution Control Board to share STP operator manual with the operators of the STPs.

3. Capacity of proposed STP and timeline for their completion

| S No. | Name of the Town | Capacity of STP | Timeline for completion | Decision taken during the meeting |
|-------|------------------------|----------------------------|-------------------------|---|
| 1. | Sultanpur Lodhi | 4 MLD at Bhagorahian Road | 31.03.2023 | XEN Punjab Water Supply & Sewerage Board discussed the progress of the various STP's in the district and ADC (UD) directed to achieve the targets within the timelines. |
| 2. | Sultanpur Lodhi | 1 MLD at Chaldhan Road | 31.12.2023 | |
| 3. | Rawal and its colonies | 2 MLD | 31.03.2023 | |
| 4. | Nadala | 1 MLD | 31.12.2023 | |
| 5. | Colonies around LPU | Assessment yet to be made | 31.12.2023 | |
| 6. | Dhilwan | 2 MLD (Tender in Progress) | 31.03.2023 | |

4. Removal of water Hyacinth from Holy Bein for its free flow: -

| S No. | Decision during last meeting | Compliance submitted by the concerned department | Decision during the current meeting |
|-------|--|---|--|
| 1. | During last DEC meeting held on 16.05.2022, SDO, Drainage Department informed that work of cleaning of Holy Bein from Harnampura Bridge to Sant Ghat and | SDO drainage was present during the meeting and informed that the cleaning of water Hyacinth from Holy Bein is under way by the department. He further informed that untreated effluent | The SDO, Drainage informed that the work regarding removal of water Hyacinth was completed, however due to recent heavy rains, the water Hyacinth is |

| | | | |
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| | <p>Bussowal has been completed. However, the work cleaning of Holy Bein near Kanjli has not even started yet.</p> <p>Drainage Department was directed to complete the work regarding removal of water hyacinth and submit the report within 7 days.</p> | <p>from Kapurthala city and adjoining areas is being discharged into Holy Bein through wadala drain and other drains leading to huge growth of hyacinth in the water body.</p> | <p>reappeared and the work regarding the removal of same is under progress.</p> <p>Further, the committee formed to check the illegal discharges into Wadala drain submitted its report and 7 no. untapped points have been identified.</p> <p>The ADC (UD) directed the DDPO and MC, Kapurthala to plug the untapped points and ensure that no untreated water is discharged into the Holy Bein</p> |
|--|---|--|--|

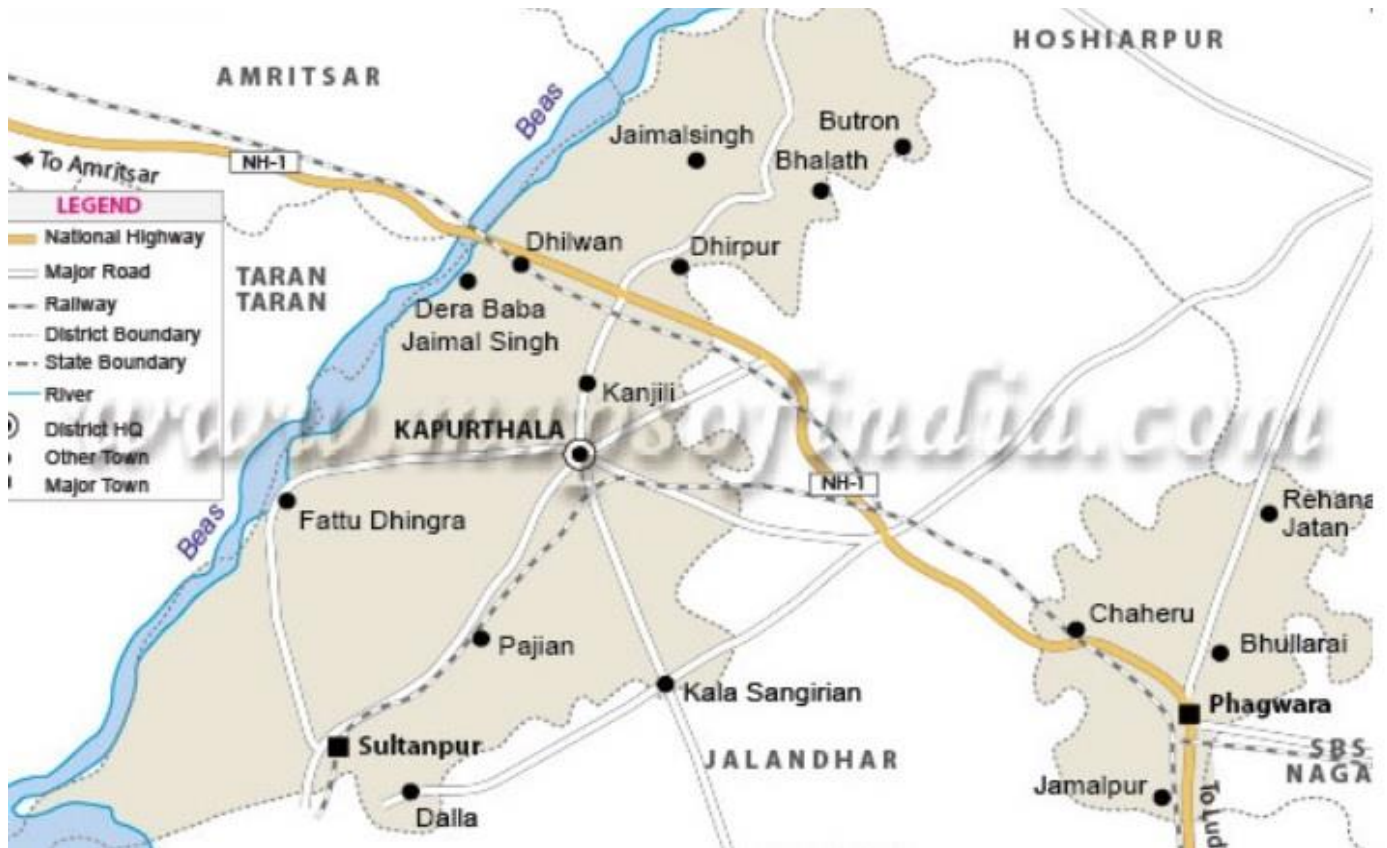
5. Compliance of NGT order dated 07.01.2022 issued in OA no. 180/2021 Titled as "Mukul Kumar vs State of Punjab and others"

| S No. | Activity | Decision during the current meeting |
|-------|--|--|
| 1. | <p>For Proper monitoring, Hon'ble NGT has constituted State level and district level committees to ensure remedial and coercive measures if there are violations such as number of vehicles employed being inadequate or waste found scattered or thrown in open or deficiencies in Collection, Transportation, Handling & Disposal of Bio-medical waste. The District level committee was directed to meet fortnightly to address the matter.</p> | <p>It was decided that the meetings of the District Level Committee shall be convened regularly by Chief Medical officer Kapurthala and representatives of PIMS, Jalandhar shall ensure their presence in these meetings.</p> <p>ADC (UD) directed Civil Surgeon, Kapurthala to put up a monthly report in this regard from Aug, 2022 onwards.</p> |

- * **No representative of MC, Phagwara was present during the meeting and as such the progress achieved by MC, Phagwara could not be discussed & ADC (UD) took a very serious view regarding absence of MC, Phagwara.**
- * **ADC (UD) directed the ULBs to carry out awareness campaign in their respective Jurisdiction regarding ban on Single Use Plastic and also carry out checking/challaning of violators, so that the ban is implemented in true letter and spirit.**
- * **The ADC (UD) directed that DDPO, Kapurthala may appoint Nodal Officer, who is well conversant with the activities related to Department of Rural Development & Panchayat as mentioned in the District Environment Plans, so that actual status of compliance is presented during the meetings of District Environment Committee.**

The meeting ended with vote of thanks to the Chair.

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 Tarn Taran 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 815,168. This gives it a ranking of 481st out of total 640 districts in India. The district has population density of 499 inhabitants per square kilometre. Its population growth rate over the decade 2001- 2011 was 8.03 %. District Kapurthala has a sex ratio of 912 females for every 1000 males and a literacy rate of 79.07 %.

The District Kapurthala has four sub-divisions/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 | Sultanpur Lodhi | 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 Department of Town & Country Planning, Punjab. Further, Department of Town & Country Planning, 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. 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, kikaprosopis 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 Dhusibandh 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. 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 severly 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.

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**

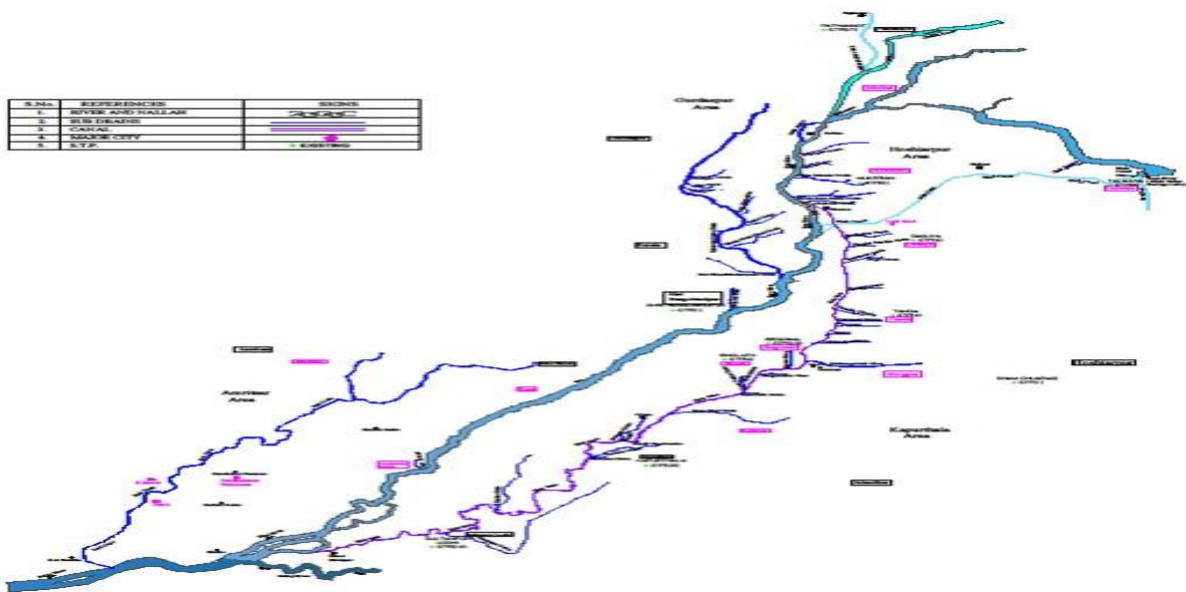
- **HOLY BEIN / KALI BEIN**

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 Harike Pattan. The flow in the Holy Bein is about 500 cusecs including fresh water @ 200 to 250 cusec from Mukerian Hydle 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: -

| S.No. | Name of Drain | Waste Water carried by the drain |
|-------|------------------------|--|
| 1. | Begowal Drain | Waste water of N.P. Begowal |
| 2. | RaipurpeerBakash 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. SultanpurLodhi |



PHAGWARA DRAIN:

Phagwara drain with stretch of 14 Km merges with East Bein at Village KukkarPind. 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 Blockwise Ground Water Resources Assessment Report, 2020 available on the CGWB website, following blocks of Distt Kapurthala has been categorized in “Over Exploited” category.

| S. No. | Place/Block/Mandal/Taluka | Categorization (Over-Exploited/ Critical/ SemiCritical/ Safe/Saline) |
|--------|---------------------------|--|
| 1. | Kapurthala | Over-Exploited |
| 2. | Dhilwan | Over-Exploited |
| 3. | SultanpurLodhi | Over-Exploited |
| 4. | Nadala | Over-Exploited |
| 5. | Phagwara | Over-Exploited |

- **Forest Coverage**

The Detail of Forest area (in Km²) of District Kapurthala is as under:-

| Geographical Area (GA) | 2017 assessment | | | | % of Geographical area |
|------------------------|-------------------|-----------------------|-------------|-------|------------------------|
| | Very Dense Forest | Moderate Dense Forest | Open Forest | Total | |
| 2624 | 0 | 2 | 8 | 10 | 0.38 |

Geography & Demography

| Description | Facts |
|---------------------------------|---------|
| Population | 815168 |
| Male | 426311 |
| Female | 388857 |
| Population growth | 8.03 % |
| Area Sq.Km | 1633 |
| Density per Km ² | 499 |
| Proportion to Punjab Population | 2.94 % |
| Sex ratio (Per 1000) | 912 |
| Child sex ratio (0-6 age) | 871 |
| Average Literacy | 79.07 % |

Kapurthala-Sultanpur Lodhi Region:

This region comprises the Tehsils of Kapurthala and SultanpurLodhi. 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 Blaate. Among the aquatic plants, the more important are Aja, 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

| S.No. | Title | Data of District Kapurthala (in Hec) |
|--------------|--|---|
| 1. | Geographical area | 163 |
| 2. | Cultivated area | 134 |
| 3. | Forest area | 02 |
| 4. | Land under non-agricultural use | 31 |
| 5. | Permanent pastures | - |
| 6. | Cultivated wasteland | - |
| 7. | Land under miscellaneous tree crops and groves | - |
| 8. | Barren and un cultivated land | - |
| 9. | Current fallows | - |
| 10. | Other fallows | - |

ACTION PLAN

1. WASTE MANAGEMENT PLAN

(i) Solid Waste Management

a. Current Status Related to Solid Waste Management

| S.No. | Urban Local Bodies | Population | Solid Waste Generated(MT per day) |
|-------|------------------------------------|-----------------|-----------------------------------|
| 1. | Municipal Corporation, Kapurthala | 98,916 | 26.8 |
| 2. | Municipal Corporation, Phagwara | 97,864 | 70 |
| 3. | Nagar Panchayat, Begowal | 10,116 | 1.16 |
| 4. | Nagar Panchayat, Bholath | 10,548 | 1.18 |
| 5. | Municipal Council, Sultanpur Lodhi | 16,822 | 4.00 |
| 6. | Nagar Panchayat, Nadala | 7,742 | 0.70 |
| 7. | Nagar Panchayat, Dhilwan | 8,157 | 1.38 |
| | Total | 2,50,165 | 105.22 |

| S.No. | No. of Village Panchayats /Blocks | No. of Households | Population | Solid Waste Generated perday (MT) |
|-------|-----------------------------------|-------------------|------------|-----------------------------------|
| 1. | 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: <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentedrehris to the workers. ✓ By imparting to the waste collected | MC Kapurthala | 31.12.2022 |

| | | | workers | | |
|------|-------------|--------------------------------|---|-------------|------------|
| II. | MC Phagwara | Achievement-40% Gap – 60% | To achieve 100% segregation, following measures will be taken: <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised reh ris to the workers. ✓ By imparting to the waste collected workers | MC Phagwara | 31.12.2022 |
| III. | NP Bholath | Achievement-69 % Gap – 31 % | To achieve 100% segregation, following measures will be taken: <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised reh ris to the workers. ✓ By imparting training to the waste collected workers | NPBholath | 31.12.2022 |
| IV. | NP Begowal | Achievement-80 % Gap – 20 % | To achieve 100% segregation, following measures will be taken: <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalised reh ris to the workers. ✓ By imparting training to the waste collected workers | NP, Begowal | 31.12.2022 |

| | | | | | |
|--------------|---------------------------------------|--|--|--------------------|--|
| V. | MC Sultanpur Lodhi | Achievement-85 % Gap-15 % | To achieve 100% segregation, following measures will be taken: <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalisedreh ris to the workers. ✓ By imparting training to the waste collected workers | MC Sultanpur Lodhi | 31.12.2022 |
| VI. | NP Nadala | Achievement-75 % Gap – 25 % | To achieve 100% segregation, following measures will be taken: <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalisedreh ris to the workers. ✓ By imparting to the waste collected workers. | NP Nadala | 31.12.2022 |
| VII. | NP Dhillwan | Achievement-75% Gap – 25% | To achieve 100% segregation, following measures will be taken: <ul style="list-style-type: none"> ✓ Public awareness by holding ward wise camps. ✓ IEC activities. ✓ By providing compartmentalisedrehris to the workers. ✓ By imparting to the waste collected workers | NP Dhillwan | 31.12.2022 |
| VIII. | Villages of District Kapurthala (546) | Segregation not be carried out in villages | Yet to prepare. | DDPO | Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 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 | Activities with regard to manual sweeping shall be carried out twice in day time and once in night time in residential and commercial areas. | MC Kapurtala | Regular activity |
| II. | MC Phagwara | Achievement – 100 % Gap: Nil | | MC Phagwara | Regular activity |
| III. | NP Bholath | Achievement - 100 % Gap: Nil | | NP Bholath | Regular activity |
| IV. | NP Begowal | Achievement - 100 % Gap: Nil | | NP Begowal | Regular activity |
| V. | MC Sultanpur Lodhi | Achievement - 100 % Gap: Nil | | MC Sultanpur Lodhi | Regular activity |
| VI. | NP Nadala | Achievement - 100 % Gap: Nil | | NP Nadala | Regular activity |
| VII. | NP Dhilwan | Achievement - 100 % Gap: Nil | | NP Dhilwan | Regular activity |
| (ii) | Mechanical Road Sweeping & Collection | <ul style="list-style-type: none"> MC Kapurthala had Proposed to purchase. | | <p>MC Kapurthala - Mechanical sweeping machine is not required.</p> <p>MC, Phagwara - Mechanical sweeping machine is not required.</p> | MC Kapurthala |
| (iii) | Villages Panchayat (546) | Gap- 100% | More manpower is being deployed to ensure 100 % sweeping | DDPO | Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 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 | <p>ULBs</p> <p>DDPO</p> | <p>Regular activity</p> <p>Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs</p> |

| | | | | | |
|-------|--|---|--|-------------------------|---|
| | | | | | 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:50/04/0/60 Phagwara: 50/5/1/97 Bholath: 13/1/1/15 Begowal:13/1/1/10 Sultanpur: 13/1/5/13 Nadala:11/1/0/13 Dhilwan: 11/1/1/15 <p>Village Panchayats (546) = Not adequate</p> | <ul style="list-style-type: none"> As per requirement, manpower and mechanical arrangements will be increased to ensure 100% D to D collection. <p>Action plan is yet to be prepared for arrangements of D to D collection.</p> | <p>ULBs</p> <p>DDPO</p> | <ul style="list-style-type: none"> Activity Completed <p>Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs</p> |
| (iii) | Waste Collection trolleys with separate Compartments | <ul style="list-style-type: none"> Tractor Trollies provided with compartments Required/ Available Kapurthala :8/4 Phagwara: 5/0 Bholath:: 1/1 Begowal1/1 Sultanpur: 1/1 Nadala: 1/1 Dhilwan: 1/1 <p>In villages Required – 546 Available - Nil</p> | Adequate number of vehicles with separate compartments for collection of solid waste shall be provided by MC, Kapurthala by 31.08.2022 | <p>ULBs</p> <p>DDPO</p> | <p>31.08.2022</p> <p>Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs</p> |
| - | Mini Collection Trucks with separate compartments | <p>ULB: Requirement/ Available</p> <ul style="list-style-type: none"> Kapurthala 0/0 Phagwara: 0/0 | As per requirement, waste collection trucks will be increased to ensure 100% D to D collection and | ULBs | Not Required |

| | | | | | |
|-------------|---|---|---|--------------------|---|
| | | <ul style="list-style-type: none"> • Bholath:: 0/0 • Begowal 0/0 • Sultanpur: 0/0 • Nadala: 0/0 • Dhilwan: 0/0 | <p>segregation.</p> <ul style="list-style-type: none"> • There is no need of Mini Collection Trucks with separate compartments in ULBs. | | |
| | | In villages – not adequate | In villages – Action plan is yet to be prepared. | DDPO | <p>Preparation of action plan -31.07.2022</p> <p>Implementation – 30.06.2025</p> <p>By 31.12.2022 - 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> |
| (v) | Waste Deposition Centres (for domestic hazardous wastes) | | | | |
| I. | MC Kapurthala | Required – 1 Installed – 1 Gap – Nil | It was directed that one additional compartment may be added in the compartmentalized rickshaw rehri/solid waste collection vehicle for collection of domestic hazardous waste by all the MCs and the waste so collected by be stored in the separate cabin at the material recovery site and same may be disposed of as per the provisions of the Hazardous Waste Management Rules, 2016/ Bio-Medical Waste Management Rules, 2016 | MC Kapurthala | Activity Completed |
| II. | MC Phagwara | Required – 1 Installed – 1 Gap – Nil | | MC Phagwara | Activity Completed |
| III. | NP Bholath | Required – 1 Installed – 1 Gap – Nil | | NP Bholath | Activity Completed |
| IV. | NP Begowal | Required – 1 Installed – 1 Gap – Nil | | NP Begowal | Activity Completed |
| V. | MC SultanpurLodhi | Required – 1 Installed – 1 Gap - Nil | | MC Sultanpur Lodhi | Activity Completed |
| VI. | NP Nadala | Required – 1 Installed – 1 Gap - Nil | | NP Nadala | Activity Completed |
| VII. | NP Dhilwan | Required – 1 Installed – 1 Gap - Nil | | NP Dhilwan | Activity Completed |

| | | | | | |
|--------------|---|--|---|---------|--|
| VIII. | Villages Panchayat (632) | Yet to provide | Yet to prepare | DDPO | Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 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 60/0/4 • Phagwara: 97/1/5 • Bholath: 15/1/1 • Begowal 10/1/1 • Sultanpur: 13/5/1 • Nadala: 13/0/1 • Dhilwan: 15/1/1 | Adequate | MCs/NPs | Activity Completed |
| (ii) | Bulk Waste Trucks | Required/Available MC Kapurthala: 0/0 MC Phagwara 2/2 | Adequate | MCs/NPs | Activity Completed |
| (iii) | Waste Transfer points | Name of the MCs and NPs/No of waste transfer points required/available Kapurthala:10/10 Phagwara: 12/12 Bholath: 0/0 Begowal: 0/0 Sultanpur: 0/0 Nadala: 0/0 Dhilwan: 0/0 | All the MCs shall provide boundary wall and green belt around the waste transfer point of provide solid waste storage bin with separate compartments for storage of wet and dry waste by 30.09.2022 or a compartmentalized trolley may be deployed for collection of wet and dry waste for its final disposal to the compost pit yard and material recovery facility, respectively and additionally second trolley with compartments may be stationed at the secondary point for further collection and | MCs/NPs | 30.09.2022 |

| | | | | | |
|----------|---|--|--|--------------------|---|
| | | | transportation of wet and dry waste to the appropriate facilities. | | |
| 5 | Waste Treatment and Disposal | | | | |
| (i) | Wet-waste Management: On-site composting by bulk waste generators | <p>BWGs</p> <ul style="list-style-type: none"> MC Kapurthala: Identified 14 onsite composting 05 Phagwara: Identified 23 onsite composting 0 Bholath : Identified 0 onsite composting 0 Begowal : identified 0 onsite composting 0 SultanpurLodhi: identified 0 onsite composting 0 Nadala : Identified 0 onsite composting 0 Dhilwan: Identified 0 onsite composting 0 | Adequate no. of compost pits by the bulk waste generator may be got provided by the concerned MC and Contonment Board by 31.08.2022 and necessary agreement for lifting and management of dry waste generated by bulk waste generators shall be made by each MC by 30.06.2022 | MCs/NPs | <p>30.06.2022 (for making agreement with each MCs)</p> <p>31.08.2022 (for providing adequate number of compost pits)</p> |
| (ii) | Wet-waste Management: Facilities for central Bio-methanation/ Composting of Wet Waste. | | | | |
| I. | MC Kapurthala | Provided – 72 | MCs Kapurthala, Phagwara and Begowal shall provide adequate number of compost pits for treatment of wet waste by 31.12.2022. It was further directed that proper record, mentioning the quantity of wet waste put into the compost pits, quantity of manure produced from the processing of wet waste, quantity of manure sold to the farmers or distributed free of cost among the society of utilized in the parks as manure, may be maintained by all the MCs . | MC Kapurthala | 31.12.2022 |
| II. | MC Phagwara | Required -100 Provided – 30 Gap - 70 | | MC Phagwara | 31.12.2022 |
| III. | NP Bholath | Required - 15 Provided – 15 Gap - Nil | | NP Bholath | Activity Completed |
| IV. | NP Begowal | Required - 12 Provided – 12 Gap - Nil | | NP Begowal | 31.12.2022 |
| V. | MC Sultanpur Lodhi | Required - 26 Provided – 26 Gap - Nil | | MC Sultanpur Lodhi | Activity Completed |
| VI. | NP Nadala | Required - 14 Provided – 14 Gap - Nil | | NP Nadala | Activity Completed |
| VII | NP Dhilwan | Required - 16 Provided – 16 Gap - Nil | | NP Dhilwan | Activity Completed |
| VIII | Villages Panchayat (632) | Not Adequate | Plan yet to be prepared | DDPO | Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 150 VPs By 30.06.2023 - 150 VPs |

| | | | | | |
|-------|--|---|---|-----------|--|
| | | | | | By 30.06.2024 - 150 VPs By 30.06.2025 - 96 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- 1 Available - 1 Gap – Nil</p> <p>NPBholath Required- 1 Available - 1 Gap – Nil</p> <p>NPBegowal Required- 1 Available - 1 Gap – Nil</p> <p>MC SultanpurLodhi 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>Villages Panchayat - Not provided</p> | All MCs/NPs have provided required no. of Material Recovery for dry waste management. | MCs/NPs | Activity Completed |
| | | | Action Plan yet to be prepared | DDPO | Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |
| (iv) | Disposal of inert and non-recyclable wastes: Sanitary Landfill | <p>MC Kapurthala has already identified land for sanitary landfill site and work is under process</p> <p>MC Phagwara, has not identified land.</p> <p>MC/NPs of Sultanpur Lodhi, Bholath, Begowal, Dhilwan and Nadala have already identified</p> | Work is under progress | MCs / NPs | 31.12.2022 |

| | | | | | |
|--|--------------------|--|---|--------------------|--|
| | | land for sanitary landfill site and work is under progress Villages 546 | Action Plan Not Yet Prepared. | DDPO | Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 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 = 6265MT • Waste remediated – 626 MT • Balance – 5639 MT | Quantity of legacy waste lying dumped at dumping site may be assessed by all MCs and Cantonment Board by 30.06.2022 and 100% legacy waste may be remediated by all the MCs and Cantonment Board by 31.12.2022 and the by-products namely Bio-soil, RDF, C & D waste and inert waste produced during remediation of legacy waste may be disposed off in an environmental sound manner. | MC Kapurthala | Assesment 30.06.2022 Completion 31.12.2022 |
| II. | MC Phagwara | <ul style="list-style-type: none"> • Total legacy waste – 4,05,000MT • Waste remediated – 0 • Balance – 4,05,000 MT | | MC Phagwara | Assesment 30.06.2022 Completion 31.12.2022 |
| III. | NP Bholath | <ul style="list-style-type: none"> • Total legacy waste – 970 MT • Waste remediated – 110 MT • Balance – 860 MT | | NP Bholath | Assesment 30.06.2022 Completion 31.12.2022 |
| IV. | NP Begowal | <ul style="list-style-type: none"> • Total legacy waste – 4650 MT • Waste remediated – 350 MT • Balance – 4300 MT | | NP Begowal | Assesment 30.06.2022 Completion 31.12.2022 |
| V. | MC Sultanpur Lodhi | <ul style="list-style-type: none"> • Total legacy waste = 5445 MT • Waste remediated – 400 MT • Balance – 5045 MT | | MC Sultanpur Lodhi | Assesment 30.06.2022 Completion 31.12.2022 |
| VI. | NP Nadala | <ul style="list-style-type: none"> • Total legacy waste = 550 MT • Waste remediated – 60 MT | | NP Nadala | Assesment 30.06.2022 Completion 31.12.2022 |

| | | | | | |
|--------|---|---|---|--|--|
| | | <ul style="list-style-type: none"> • Balance – 490 MT | | | |
| VII. | NP Dhilwan | <ul style="list-style-type: none"> • Total legacy waste = 605 MT • Waste remediated – 20 MT • Balance – 585 MT | | NP Dhilwan | Assesment 30.06.2022 Completion 31.12.2022 |
| VIII. | Villages Panchayat (546) | Not Started | Scheme for treatment of legacy waste in villages is yet to be prepared accordingly. | DDPO | Preparation of action plan -31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 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 purpose. | MCs/NPs and DDPO | Regular Activity |
| (vii) | EPR of Producers: Linkage with Producers /Brand Owners | Linkage with Producers /Brand Owners | Brand owners/producers shall be pursued to start collecting and disposing of plastic waste by 30.09.2022. | ULBs | 30.09.2022 |
| (viii) | Authorization of Waste Pickers | ULB: WPs Identified/ Authorized <ul style="list-style-type: none"> • Kapurthala- 60/60 • Phagwara -14/14 • Bholath – 9/9 • Begowal- 14/14 • Sultanpur-13/13 • Nadala-8/8 • Dhilwan-11/11 | As per requirement, waste pickers are already Identified. | 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) | MC, Kapurthala Identified -37 Remove- 10 Gap- 27 MC, Phagwara Identified -10 Remove- 6 Gap- 4 Sultanpur Lodhi | The GVPs shall be removed by all the MCs by 31.08.2022 and vacant places after removal of the GVPs may be converted into useful usages like sitting place, park, playground, green area etc. by | All ULBs | Removal 31.08.2022 Beautification 30.09.2022 |

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|------|--|--|--|---------|------------|
| | | <p>Identified -8 Remove- 6 Gap- 2</p> <p>Begowal- Identified -2 Remove- 1 Gap- 1</p> <p>Bholath- Identified -2 Remove-1 Gap- 1</p> <p>Dhilwan- Identified -3 Remove- 1 Gap- 2</p> <p>Nadala- Identified -2 Remove- 1 Gap- 1</p> | 30.09.2022. | | |
| (xi) | Provision of green belt and boundary wall around solid waste dumping site. | <p>MC Kapurthala Green Belt –Not provided Boundary Wall – under construction</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 – Not provided</p> <p>NP Nadala Green Belt –Not provided Boundary Wall – Under Construction</p> <p>NP Dhilwan Green Belt –Not provided Boundary Wall – Not provided</p> | <p>Boundary wall and Green Belt/Plantation, around the legacy waste dump site may be provided by all the MCs and Cantonment Board by 30.10.2022.</p> <p>MC, Phagwara shall provide boundary wall between the drain and solid waste dumping site so as to avoid the entry of solid waste into drain within 6 weeks and pipe carrying leachate of solid waste dump site into durm may be removed within 03 days.</p> | MCs/NPs | 30.10.2022 |

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| | | | | | |
| (xii) | Providing compartments and GPS tracking in garbage carrying vehicles | All the MCs/NPs have provided compartments & GPS tracking in garbage carrying vehicle. | No vehicles without compartments and GPS may be deployed for carrying garbage | ULBs | Already 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 | Deputy Commissioner, Kapurthala shall review the issue regarding treatment of leachate generated from the legacy waste dump sites of each MCs either in the cluster form or individually or by other methods with the concerned Executive Officers of all the MCs, PWSSB and Punjab Pollution Control Board and any other concerned Department within 15 days. A scheme/proposal for treatment of leachate generated at legacy waste dump site may be prepared by 31.08.2022 and treatment mechanism may be provided by each MC by 31.12.2022. | MCs/NPs | Proposal 31.08.2022 Installation 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, | 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.swachhahhbarat | ULBs | Already in place |

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|--------|--|--|---|---------|---|
| | at local level as well as State level. (Directions of Hon'ble NGT in 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 31.08.2022 and connectivity with PPCB and District Administration by 31.10.2022. | MCs/NPs | Installation 31.08.2022 Connectivity 31.10.2022 |
| (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 NPBholath – Not Installed NPBegotwal - Not Installed MC Sultanpur - Not Installed NP Nadala - Not Installed NP Dhillwan Not Installed | Piezometers at dump sites shall be installed by 31.08.2022. | MCs/NPs | 31.08.2022 |
| (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. | Short term measures like provision of boundary wall, green belt, plantation and hedges etc. at the carcasses disposal site may be provided by 31.10.2022. | MCs/NPs | For Proposal submission – 30.06.2022 For installation – 30.06.2023 |

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|---------|---|---|---|---------|--|
| (xviii) | Carcass disposal to be done under the supervision Veterinary/Animal Husbandry Department of the State and the Local Bodies. (Directions of Hon'ble NGT in OA no. 465/2019 dated 15.04.2021 | No Gap | Carcass disposal will be ensured under the supervision of veterinary doctors. | MCs/NPs | Regular Activity |
| (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 Chairman of the Monitoringj Committee directed that all the MCs and JDA/PUDA shall get install individual STPs along the sewerage system for treatmentof wastewater discharged by the unauthorized colonies located within MC limits within tie time frame as mentioned in the District Environment Plan. It was further directed that for the management of solid waste generated by these unauthorized colonies, MCs shall make agreement with these unauthorized colonies for management of solid waste with suitable user charges to be paid by unauthorized colonies to the concerned MCs by 31.08.2022. Similarly, Development authority (JDA/PUDA) shall pursue the unauthorized colonies/commercial complex existing outside MC areas to install individual STPs and sewerage system for treatment of wastewater and for management of solid | 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 Agreement of management of solid waste may be done by 31.08.2022. |

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|---------|---|---|---|------------------|--------------------|
| | | | waste, the necessary agreement shall be got made with the concerned MCs for scientific disposal of solid waste with suitable user charges to be paid to concerned MCs with the time schedule as mentioned in the District Environment Plan. | | |
| (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 243 G, 241 W and 243 ZD read with scheduled 11, 12 & 15 of SWM Rules, 2016. | No Gap | Constituted by the State Government. | State Government | Activity Completed |
| (xxiii) | Management of carcass in rural area. | Inadequate management of carcass in rural area. | Short term measures like provision of boundary wall, green belt, plantation and hedges etc. at the carcasses disposal site may be provided. | ULBs/DDPO | 31.10.2022 |

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|--------|--|--|---|---------|--------------------|
| | | | | | |
| (xxiv) | Dry-Waste Management: Material Recovery for dry-waste fraction (RDF) | All MCs/NPs have provided adequate no. of MRFs for the management of dry waste | All MCs/NPs have provided adequate no. of MRFs for the management of dry waste. | MCs/NPs | Activity Completed |
| (xxv) | Management of Horticulture Waste in MCs. | No. of composed pits provided: - MCKapurthala:12 MCPHagwara:60 NP Bholath: 2 NP Begowal:6 MC Sultanpur: 8 NP Nadala:2 NP Dhillwan: 4 | 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 |

1. Plastic Waste Management

(a) Current status related to Plastic Waste Management

| S. No. | Urban Local Bodies | Estimated quantity of Plastic Waste Generated MT/day |
|--------------|-----------------------------------|--|
| 1. | Municipal Corporation Kapurthala | 0.5 |
| 2. | Municipal Corporation Phagwara | 1.0 |
| 3. | Municipal Council Sultanpur Lodhi | 0.2 |
| 4. | Nagar Panchayat Bholath | 0.1 |
| 5. | Nagar Panchayat Begowal | 0.2 |
| 6. | Nagar Panchayat Nadala | 0.1 |
| 7. | Nagar Panchayat Dhilwan | 0.1 |
| Total | | 2.2 |

| S.No. | Local Bodies | Estimated quantity of Plastic Waste Generated MT/perday |
|-------|---------------------------|---|
| 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 - 31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 150 VPs By 30.06.2023 - 150 VPs By 30.06.2024 - 150 VPs By 30.06.2025 - 96 VPs |

| | | | | | |
|----|---|--|--|----------------------------|--|
| 2. | Facilitate organized 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- 60 • Phagwara - 97 • Bholath - 15 • Begowal- 10 • Sultanpur-13 • Nadala-13 • Dhillwan-15 <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>Preparation of action plan - 31.07.2022</p> <p>Implementation – 30.06.2025</p> <p>By 31.12.2022 - 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- 1 Available - 1 Gap – Nil</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 – Nil</p> <p>NP Nadala Required- 1 Available - 1 Gap – Nil</p> <p>NP Dhillwan Required- 1 Available - 1</p> | <p>All MCs/NPs have installed required no. Material Recovery Facilities (MRF).</p> | <p>MCs/NPs</p> | <p>Activity Completed</p> |

| | | | | | |
|----|---|--|--|-----------|------------------|
| | | 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 | MC, Kapurthala agreement done with ITC. Sultanpur Lodhi, Bholath, Begowal, Dhilwan and Nadala have done any 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. <ul style="list-style-type: none"> • 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 - Nil | Already achieved | PPCB | 31.08.2022 |
| 7. | Development and setting up of infrastructure for segregation, collection, storage, transportation, Processing, and disposal of Plastic | Arrangement of Plastic Waste Management is under process. | <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 | MCs / NPs | 31.03.2022 |

| | | | | | |
|-----|--|--|--|----------------------------|--|
| | Waste either on its own for by engaging agencies or producers. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021) | | <p>from the ULBs.</p> <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) | <p>ULBs- Already made</p> <p>Rural areas- yet to frame</p> | <p>MCs/NPs already framed</p> <p>Rural Panchayats = yet to prepare</p> | <p>MCs/NPs</p> <p>DDPO</p> | <p>Activity already completed</p> <p>31.07.2022</p> |
| 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 | <p>Preparation of action plan - 31.07.2022</p> <p>Implementation – 30.06.2025</p> <p>By 31.12.2022 - 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> |
| 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., | ULBs & PPCB | Activity already completed |

| | | | | | |
|-----|---|----------------------------|--|---------------------------|---|
| | | | regarding banning of single use plastic will be 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 - 31.07.2022 Implementation – 30.06.2025 By 31.12.2022 - 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. | ULBs | 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 |

1. 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 – NIL MC Phagwara – 0.2 NP Bholath – 0.03 NP Begowal- 0.03 MC SultanpurLodhi- 0.04 NP Nadala- 0.02 NP Dhilwan-0.03 |
| 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 has 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 C&D waste crushing machinery in the District. | Local bodies department is preparing proposal for installation of recycling facility. All MCs shall install small C & D waste crushing machinery along with pollution control system by 31.08.2022 and thereafter C & D waste recycling facility may be provided by 31.12.2022 and crushed C & D waste may be started utilizing in scientific manner for paving blocks, lower layers of road pavements, colony and rural roads. | ADC (UD) | <ul style="list-style-type: none"> • Preparation of proposal 31.03.2022 • Implementation - 31.12.2022 |
| 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 C&D waste crushing machinery 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 - 31.12.2022 |
| 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 | 103 |
| Total no. of non-bedded HCF | 357 |
| No. of HCFs authorized by SPCBs/PCCs | 349 |
| No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs) in District | Nil |
| Capacity of CBWTFs | NA |
| No. of Deep burials for BMW if any | Nil |
| Quantity of biomedical waste generated per day | 269 Kg |
| Quantity of biomedical waste treated per day | 269 kg (At CBWTF located at Amritsar). |

b. Identification of gaps and Actionplan:

| Sr. No. | Action points | Gaps | Action Plan | Responsible agency | Timeline |
|----------------|--|--|--|---------------------------|-------------------|
| 1. | Inventory and Identification of Healthcare Facilities | Inventory already completed | Regular activity | PPCB/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 | -. | PPCB | 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 | PPCB | 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/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 Kapurthala | 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. | - | PPCB | Regular Activity |
| 7. | District Level Monitoring Committee | District Level Monitoring Committee has already been constituted and meetings are being organized regularly. | - | ADC (G) | 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. PPCB may explore the possibility of getting join the small HCFs for treatment of their wastewater in the effluent treatment plant installed by the nearby bug hospital with suitable user charge to be paid to | PPCB | 30.06.2022 |

| | | | | | |
|----|--|--|---------------------------------|------|-------------------|
| | | | the big hospital by 30.06.2022. | | |
| 9. | Spent Fixer Hypo Solution and Xray films management | No Gap as most of the HCFs in the District 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. | Action not required | PPCB | 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 | 49 |
| Quantity of HW in the district | 694.252 MT/Annum |
| (i) Quantity of Incinerable HW | 0 MT/Annum |
| (ii) Quantity of land-fillable HW | 548.162 MT/Annum |
| (iii) Quantity of Recyclable / utilizable HW | 146.09 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 Actionplan:

| 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 | PPCB | 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 / PPCB | 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. Kapurthala. All the generators are | - | Department of Industries / PPCB | 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 Nimbuan will be engaged for imparting training to industrial workers. Quarterly training session will be conducted in collaboration with various industrial associations | PPCB | 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 /JDA | Regular Activity |
| 2 | E-Waste collection points | MC, Phagwara – in MRF Shed. Sultanpur Lodhi-In MRF Shed Begowal-In MRF Shed Bholath-In MRF Shed Nadala-In MRF Shed Dhilwan-In MRF Shed | E-Waste collection points are installed in MRF Sheds of whole Kapurthala District. | ADC (UD)/Municipal Corporation/ULBs /JDA | Activity Completed |
| 3 | Linkage among Stakeholders to channelize E-Waste | MC, Kapurthala In process Other ULBs 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 /JDA | 30.09.2022 |
| 4 | Regulation of Illegal E- Waste recycling / dismantling | MC, Kapurthala In process Other ULBs Gap = 100% | Action will be initiated to identify and restrict all the | ADC (UD)/Municipal Corporation/ULBs /JDA | 30.09.2022 |

| | | | | | |
|---|---------------------------------------|--|--|--|------------------|
| | | | illegal recyclers and dismantlers. | | |
| 5 | Integration of informal sector | MC, Kapurthala In process Other ULBs Gap = 100% | Action will be initiated for Integration of informal sector. | ADC (UD)/Municipal Corporation/ULBs /JDA | 30.09.2022 |
| 6 | Awareness and Education | Awareness among shopkeeper/people being done. | Newspaper ads will be published for awareness of people. | ADC (UD)/Municipal Corporation/ULBs/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 Kapurthala which requires 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 Kapurthala are as under:</p> <table border="1" data-bbox="962 1238 1492 2038"> <thead> <tr> <th data-bbox="962 1238 1026 1323">Sr. No.</th> <th data-bbox="1026 1238 1177 1323">Type of industries</th> <th data-bbox="1177 1238 1313 1323">Number of Units *</th> <th data-bbox="1313 1238 1492 1323">No. of units which have provided APCD</th> </tr> </thead> <tbody> <tr> <td data-bbox="962 1323 1026 1397">1.</td> <td data-bbox="1026 1323 1177 1397">Rice sheller</td> <td data-bbox="1177 1323 1313 1397">97</td> <td data-bbox="1313 1323 1492 1397">97</td> </tr> <tr> <td data-bbox="962 1397 1026 2038">2.</td> <td data-bbox="1026 1397 1177 2038">Brick Kiln</td> <td data-bbox="1177 1397 1313 2038">33</td> <td data-bbox="1313 1397 1492 2038">5 no. brick kilns are lying closed. 27 no. brick kilns have adopted induced draft with zig zag technology. Action against 01 no. brick kilns as per provisions of the Air Act 1981 is under</td> </tr> </tbody> </table> | Sr. No. | Type of industries | Number of Units * | No. of units which have provided APCD | 1. | Rice sheller | 97 | 97 | 2. | Brick Kiln | 33 | 5 no. brick kilns are lying closed. 27 no. brick kilns have adopted induced draft with zig zag technology. Action against 01 no. brick kilns as per provisions of the Air Act 1981 is under |
| Sr. No. | Type of industries | Number of Units * | No. of units which have provided APCD | | | | | | | | | | |
| 1. | Rice sheller | 97 | 97 | | | | | | | | | | |
| 2. | Brick Kiln | 33 | 5 no. brick kilns are lying closed. 27 no. brick kilns have adopted induced draft with zig zag technology. Action against 01 no. brick kilns as per provisions of the Air Act 1981 is under | | | | | | | | | | |

| | | | |
|--|----|---|---------------------------|
| | | | process for their closure |
| | 3. | Induction furnace | 10 |
| | 4. | Cupola Furnace | 73 |
| | 5. | Distillery | 1 |
| | 6. | Sugar Mill | 1 |
| | 7. | Others (Food Processing, Dyeing, Rail Coach Manufacturing etc.) | 4 |

b. Identification of gaps and actionplan:

| S. No. | Action Points | Indicative Action Plan | Responsible Agency | Timeline |
|--------|---|--|--|------------------|
| 1. | Identification of prominent air polluting sources | Small scale industry (brick kiln & rice sheller), Unpaved Roads, Burning of Waste Stubble & Vehicular pollution | PPCB/ PWD/ Agriculture | Regular Activity |
| 2. | Ambient quality data | 02 manual ambient air quality station be installed jurisdiction of Distt. Kapurthala by 30.06.2022. | PPCB | 30.06.2022 |
| 3. | Setting up of Continuous Ambient Air Quality Monitoring Station | No CAAQMS is required in Distt. Kapurthala | PPCB | 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 | NA | Not Required |
| 5. | Hotspots of air pollution in District | Not required as Kapurthala has not been declared as non –attainment city. | NA | Not Required |
| 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 | 31.12.2022 |

| | | | | |
|---|--|--|----------------------------|--------------|
| | | | Board at various locations | |
| 7 | Preparation of micro level action plan for control of air pollution in Kapurthala town | Not required as Kapurthala has not been declared as non-attainment city. | NA | Not Required |

C. Management of Agriculture Residue/Stubble

| S. No. | Action Points | Indicative Action Plan | Responsible Agency | Timeline | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|------------------------|------------------|------|---|--------------|------|---|--------------|-----|---|---------------------|------|---|--------------|-----|---|------------|-----|---|-----------|-----|------------------------|------------|
| 1. | Area under for paddy/wheat | Paddy =1.21 Lakh Ha. Wheat =1.23 Lakh ha. | Agriculture 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 | Agriculture 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. 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> | 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 | Agriculture 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 | | | | | | | | | | | | | | | | | | | | | | | |

| | | For Ex-situ Management, Balers can be the solution. For Wheat straw Straw Reaper can solve the purpose. | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|--|------------------------|-------------|------|---|--------------|------|---|--------------|----|---|--------------------|------|---|--------------|-----|---|------------|----|---|-----------|-----|------------------------|------------|
| 4. | Gap of Agricultural implements for complete management of 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>1400</td> </tr> <tr> <td>2</td> <td>Happy Seeder</td> <td>60</td> </tr> <tr> <td>3</td> <td>Mulcher+RMB Plough</td> <td>500*</td> </tr> <tr> <td>4</td> <td>Straw Reaper</td> <td>100</td> </tr> <tr> <td>5</td> <td>Baler+Rake</td> <td>70</td> </tr> <tr> <td>6</td> <td>Super SMS</td> <td>250</td> </tr> </tbody> </table> <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. *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> | Sr.No | Description | Nos. | 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 | Agriculture Department | 31.10.2023 |
| Sr.No | Description | Nos. | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | |
| 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. | Agriculture Department | 31.10.2023 | | | | | | | | | | | | | | | | | | | | | |
| 6. | Funds requirement | Approx. 30crores to fill the gap between availability and actual requirement of machine. | Agriculture Department | 31.10.2023 | | | | | | | | | | | | | | | | | | | | | |
| 7. | Source of funding | In-Situ CRM scheme. | Agriculture Department | 31.10.2023 | | | | | | | | | | | | | | | | | | | | | |

4. 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 | Nil |

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 | <p>Following Water bodies have been inventorized by department of water resources.</p> <p>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</p> <p>The monitoring of rivers, drains are already being carried out and data is being maintained.</p> <p>The inventory of water bodies may be prepared by the Department of Irrigation and Department of Rural Development and Panchayat by 31.07.2022.</p> | Water Resources Department/ PPCB | 31.07.2022 |

| | | | | |
|----|--|--|---|-------------------|
| 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. | Hot spots 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/DDP O/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 | Water Resources Department | Regular Activity |

| | | | | |
|-----|------------------------------------|--|------------------------------|--------------------|
| | | 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. | | |
| 8. | Flood plains mapping | The mapping has been done by the Drainage Department manually. The same will be put in an electronic file and link of the same will be shared. | Water Resources Department | 31.03.2022 |
| 9. | Rejuvenation of groundwater | CGWA has already prepared and action plan for rain water harvesting. Data available on web site http://cgwb.gov.in The Deputy Commissioner, Kapurthala shall hold meetings with concerned departments and prepare a proposal/scheme for rejuvenation of the groundwater based on the points as discussed above and the same may be started implementing by 30.09.2022. | Soil Conservation Department | 30.09.2022 |
| 10. | Complaints redressal system | Public complaint redressal system already established in the district. Web link: publicgrievancepb.gov.in | PPCB | Activity Completed |

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 | 5 |
| 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 MLD |
| 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 MLD |

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, SultanpurLodhi, Begowal, Bholath, Dhillwan&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/AS P/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</td> </tr> </tbody> </table> | Sr no | Town | STP installed capacity | Technology (UASB/AS P/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 | ULBs/PWSSB | 31.12.2023 |
| Sr no | Town | STP installed capacity | Technology (UASB/AS P/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 | SultanpurLodhi | 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 |

| | | <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>SultanpurLodhi</td> <td>4 MLD at Bhagorahian Road</td> </tr> <tr> <td>SultanpurLodhi</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 | SultanpurLodhi | 4 MLD at Bhagorahian Road | SultanpurLodhi | 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 | | <table border="1"> <thead> <tr> <th>Name of ULB</th> <th>Name of STP & capacity</th> <th>Timelin e for complet ion & commis sioning</th> </tr> </thead> <tbody> <tr> <td>Sulta npur Lodhi</td> <td>4 MLD at Bhagor ahian Road</td> <td>31.03.2 023</td> </tr> <tr> <td>Sulta npur Lodhi</td> <td>1 MLD at Chaldh an Road</td> <td>31.12.2 023</td> </tr> <tr> <td>Rawa l& Colo nies</td> <td>2 MLD.</td> <td>31.03.2 023</td> </tr> <tr> <td>Nada la</td> <td>1 MLD</td> <td>31.12.2 023</td> </tr> <tr> <td>Colo nies arou nd Lovel y Profe ssion al Univ ersity</td> <td>Yet to access</td> <td>31.12.2 023</td> </tr> <tr> <td>Dhill wan</td> <td>2 MLD</td> <td>31.03.2 023</td> </tr> </tbody> </table> | Name of ULB | Name of STP & capacity | Timelin e for complet ion & commis sioning | Sulta npur Lodhi | 4 MLD at Bhagor ahian Road | 31.03.2 023 | Sulta npur Lodhi | 1 MLD at Chaldh an Road | 31.12.2 023 | Rawa l& Colo nies | 2 MLD. | 31.03.2 023 | Nada la | 1 MLD | 31.12.2 023 | Colo nies arou nd Lovel y Profe ssion al Univ ersity | Yet to access | 31.12.2 023 | Dhill wan | 2 MLD | 31.03.2 023 |
|--|---|---|--|------------------------|----------------|---------------------------|----------------|------------------------|-----------------|--------|--------|-------|--|---------------|---------|---------------------------|--|--|-------------|------------------------|--|------------------|----------------------------|-------------|------------------|-------------------------|-------------|-------------------|--------|-------------|---------|-------|-------------|--|---------------|-------------|-----------|-------|-------------|
| Name of ULB | Name of STP & capacity | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SultanpurLodhi | 4 MLD at Bhagorahian Road | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SultanpurLodhi | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name of ULB | Name of STP & capacity | Timelin e for complet ion & commis sioning | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulta npur Lodhi | 4 MLD at Bhagor ahian Road | 31.03.2 023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulta npur Lodhi | 1 MLD at Chaldh an Road | 31.12.2 023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rawa l& Colo nies | 2 MLD. | 31.03.2 023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nada la | 1 MLD | 31.12.2 023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colo nies arou nd Lovel y Profe ssion al Univ ersity | Yet to access | 31.12.2 023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dhill wan | 2 MLD | 31.03.2 023 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | <p>Underground sewerage network</p> <ul style="list-style-type: none"> • Kapurthala- 10% • Phagwara-20% • Bholath - 40% • Begowal- 5% • Sultanpur-2% • Nadala-40% • Dhilwan-15% | ULBs/PW SSB | The complete underground sewerage network in on MCs/NPs to be provided by 31.12.2022 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | <p>Reduction of per capita water utilization/supply</p> <p>a. Installatio n of flow meters at</p> | This will be done after construction of distribution/zonal water supply systems under surface ater project. | ADC (UD)/Municipal Corporation/ULBs/JDA 31.12.2025 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|----|---|---|---|--|
| | <p>various locations on water supply network to ensure restricted supply to reduce waste water generation</p> | | | |
| 6. | <p>Utilization of secondary sludge from STPs</p> <p>a. In agriculture fields</p> <p>b. In parks/green areas</p> | <p>Proposal is being made for utilization of secondary sludge</p> | <p>ADC (D)/ADC (UD)/PW SSB/Department of Agriculture/Municipal Corporation/ULBs</p> | <p>Proposal-31.03.2022 Completion-31.03.2023</p> |
| 7. | <p>Unauthorized outlets of untreated sewage into drains</p> | <p>All have been connected to sewer line.</p> | <p>Municipal Corporation/ULBs/DDPO</p> | <p>Already Completed</p> |
| 8. | <p>Installaton of In-Situ Remediation Technology in the drains/ponds carrying untreated sewage not connected to STPs</p> | <p>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. colonies.</p> | <p>MC Kapurthala</p> | <p>Regular Activity</p> |

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 | <p>Nos of villages to be covered in phase-1 and 2 :- 546</p> <p>a) Source of funding</p> | <p>Work is yet to start on site</p> <p>Swachh Bharat Mission, Finance Commission & MGNREGA</p> | DDPO/ADC (D) | <p>Preparation of action plan - 31.07.2022</p> <p>Implementation – 30.06.2025</p> <p>By 31.12.2022 - 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> |

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 utilized for irrigation purpose. | ADC (UD)/ Department of Soil & Conservation/ Municipal Corporation/ULBs /PWSSB | Preparation of irrigation scheme - 31.03.2022 laying of sewerage network for utilizing treated sewage from STPs for irrigation purpose - 31.08.2022 |
| 2. | Utilization of treated sewage from STPs for construction purpose | Gap-100% | Directions have been issued to all major construction sites to use only treated water of STP for construction purpose. | ADC (UD)/ ADC (D)/Municipal Corporation/ULBs /JDA/DDPO | Preparation of action plan - 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 | 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 | ADC (UD)/ULBs | 31.03.2022 |

| | | | | | |
|--|--|--|--|--|--|
| | | | of utilizing treated water with tankers. | | |
|--|--|--|--|--|--|

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 wastewater:

| 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 ETPs or are connected with CETP. | PPCB | Regular Activity |
| 2. | Complaint redressal system | Public complaint redressal system already established in the district. Web link: publicgrievancepcb.gov.in | PPCB | Activity Completed |

7.0 Mining Activity Management Plan

a) Current Status

| | |
|--|-------------|
| Type of Mining Activity | Sand Mining |
| No. of licensed Mining operations in the District | Nil |
| % area covered under mining in the District | Nil |
| Area of Sand Mining | Nil |
| Type of Sand Mining | Nil |

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 and District level task force 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 | - | PPCB | 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 (Prevention and Control of Pollution) Act, | The conditions mentioned in the Environmental Cleanliness Certificate issued by the State Level Environment | Drainage Department | No Mining operations in the leveled river bed shall be carried out beyond the depth of 3 meters or water level whichever is less/lower. |

| | | | | |
|----|---|---|---------------------|---|
| | 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) | 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. | | 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/vehicle s/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 | 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. |

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|-----|--|---|---|--|
| | | Officer & approved by State Geologist, Pb. | | Regular Activity |
| 10. | Status of CCTV Cameras installation at mining points to verify the amount of sand extracted. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | CCTV cameras has been installed at mining points and integrated with Govt. Web-Portal. | Drainage Department | N.A. as no mine is operational, recently CCTV were installed at each mining site whoes contract now has been terminated |
| 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 and District level task force. 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 77 FIR's has been lodged in District Kapurthala | Police Department & Drainage Department | NGT guide lines 19/6/2020 are asked to Police officials to implement while doing FIR's. Regular activity. |

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|-----|---|---|---------------------|---|
| | | and total 101 No's Vehicles has been impounded by the Concerned Officials during the period of 07/2018 to 07/2022 | | |
| 14. | Status of setting up of dedicated institutional mechanism for monitoring of conditions of Environmental Clearance as granted under EIA Notification, 2006 in respect of sand and gravel mining. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) | The process for establishment of Monitoring System 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. |
| 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 | Drainage Department | District Administration has constituted District Level task force for regular checking's and inspections for proper monitoring the illegal mining activity in District Kapurthala. Regular activity |

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|-----|--|--|---------------------|--|
| | | Office, Water Resources Department, Pb. Chandigarh. | | |
| 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-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) | Police presence-both static presence and dynamic patrolling is being done on sensitive spots. | Police Department | No such spot has been found where on regular basis illegal mining 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 | The storage godowns/ stock yards established outside the river bank and maximum storage godowns more than 5kms from the pit site, after | Drainage Department | No Stockyard is available in district Kapurthala |

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| | <p>himself. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)</p> | <p>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.</p> | | |
| 19. | <p>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 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)</p> | <p>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 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 on site</p> | <p>Drainage Department</p> | <p>No mine operational in District Kapurthala. Geo-fencing of mining site along with allotment of geo coordinates to all the pillars in river sand mining shall be made before operational of sites</p> |

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|-----|---|---|---------------------|--|
| | | to ensure that mining activity is as per the approved mine plan. however no mine is operational in Distt. Kapurthala. | | |
| 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 | At present stage no such problem or situation occurs in District Kapurthala & during the mining | Drainage Department | 31.12.2021 |

| | | | | |
|-----|--|--|----------------------------|--|
| | <p>degradation due to mining. A portion of the royalty could be reserved for it as Environment Restoration Fund. The Environment 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>activity in Agricultural/non riverbed mine area, the plantation is being carried out in the land under the 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>Consultant has been hired for preparing fresh DSR as per SSMG- 2016 read with EMGSM-2020 reinforced by Mechanism (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021) Regular Activity</p> |
| 23. | <p>Annual reports on the subject and</p> | <p>Needful will be done.</p> | <p>Drainage Department</p> | <p>30.04.2022</p> |

| | | | | |
|--|---|--|--|--|
| | <p>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> | | | |
|--|---|--|--|--|

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 Beas No mine allotted | Water Resources Department | NA |
| 2 | Existing Area where mining is being done like flood plain area / river/ any other land form | River Bed | Water Resources Department | NA |
| 3 | Proposed area where mining is to be done like flood plain area / river/ any other land form | River Bed of Beas in Kapurthala Jurisdiction. | Water Resources Department | Area is being identified so it can be added in DSR |
| 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) | Water Resources Department | NA as contract has been terminated |

| | | | | |
|---|---|--|----------------------------|-------------------------------------|
| | | terminated by the concerned Nodal Officer cum DMO Amritsar due to Non payment of Due Installments. | | |
| 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 of mined material | Asked to contractor to make sure that GPS should be installed in all vehicles that comes to mining sites. | Water Resources Department | GPS is being installed on vehicles. |
| 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 /PPCB/ULBs. Police Department | 30.09.2022 31.12.2022 - |
| 2. | Ambient Noise Level monitoring. a. Near notified silence zone b. Checking of pressure horns in vehicles and motorcycle for illegal "Patakasilencer" | It will be done with co-operation of Municipal Corporation, Kapurthala. Continous exercise | Police Department/ULB Police Department | Regular Activity Regular Activity |
| 3. | Sign boards in Noise zones | In Kapurthala city 30 no. of no horn sign boards have been already fixed in front of schools & hospitals & 20 no. more sign boards are required. | Municipal Corporation Kapurthala/Phagwara | 30.06.2022 |
| 4. | Complaint redressing system | Public complaint redressal system already established in the district. Web link: publicgrievancepcb.gov.in | PPCB | Activity Completed |

List of Nodal Officer of the Various StakeHolder Departments

| Sr No. | Name of the Department | Nodal Officer Name | Designation | Mobile no. |
|---------------|---|--------------------------------|---------------------|-------------------|
| 1. | Municipal Corporation, Phagwara | Dr.Nayan PCS | Commissioner | 8000500003 |
| 2. | Punjab Pollution Control Board | Sh. Sandeep Bahl | SEE | 9878950518 |
| 3. | Department of Rural Development and Panchayat | Sh. Harjinder Singh | DDPO | 9501146000 |
| 4. | Jalandhar Development Authority, Jalandhar | Sh. Yadwinder Singh | XEN | 9779918189 |
| 5. | Department of Water Resources & Drainage, Jalandhar | Sh. Harjot Singh Walia | XEN, Mining | 9780092500 |
| 6. | Police Department | Sh. Harpreet Singh Benipal PPS | SP Hqrs. Kapurthala | 99153-55588 |
| 7. | Agriculture Department, Kapurthala | Sh. Balbir Chand | CAO | 9815836724 |
| 8. | Department of Soil & Water Conservation, Jalandhar | Manpreet Singh | SDO | 9814770784 |
| 9. | Punjab Water Supply & Sewerage Board, Jalandhar | Sh. Rajwinder Gill | SDE | 7589200410 |
| 10. | PSIEC, Jalandhar | Sh. Kamaljit Singh | SDE | 9814256816 |
| 11. | Municipal Corporation, Kapurthala | Sh. Brij Mohan | Executive Officer | 9780413102 |
| 12. | Nagar Panchayat, Bholath | Sh. Vijay Dogra | Executive Officer | 9464677171 |
| 13. | Nagar Panchayat, Begowal | Sh. Vijay Dogra | Executive Officer | 9464677171 |
| 14. | Nagar Panchayat, Nadala | Sh. Brij Mohan | Executive Officer | 9780413102 |

| | | | | |
|-----|------------------------------------|--------------------|-------------------|------------|
| 15. | Nagar Panchayat, Dhilwan | Sh. Brij Mohan | Executive Officer | 9780413102 |
| 16. | Municipal Council, Sultanpur Lodhi | Sh. Kamaljit Singh | Executive Officer | 9814322733 |