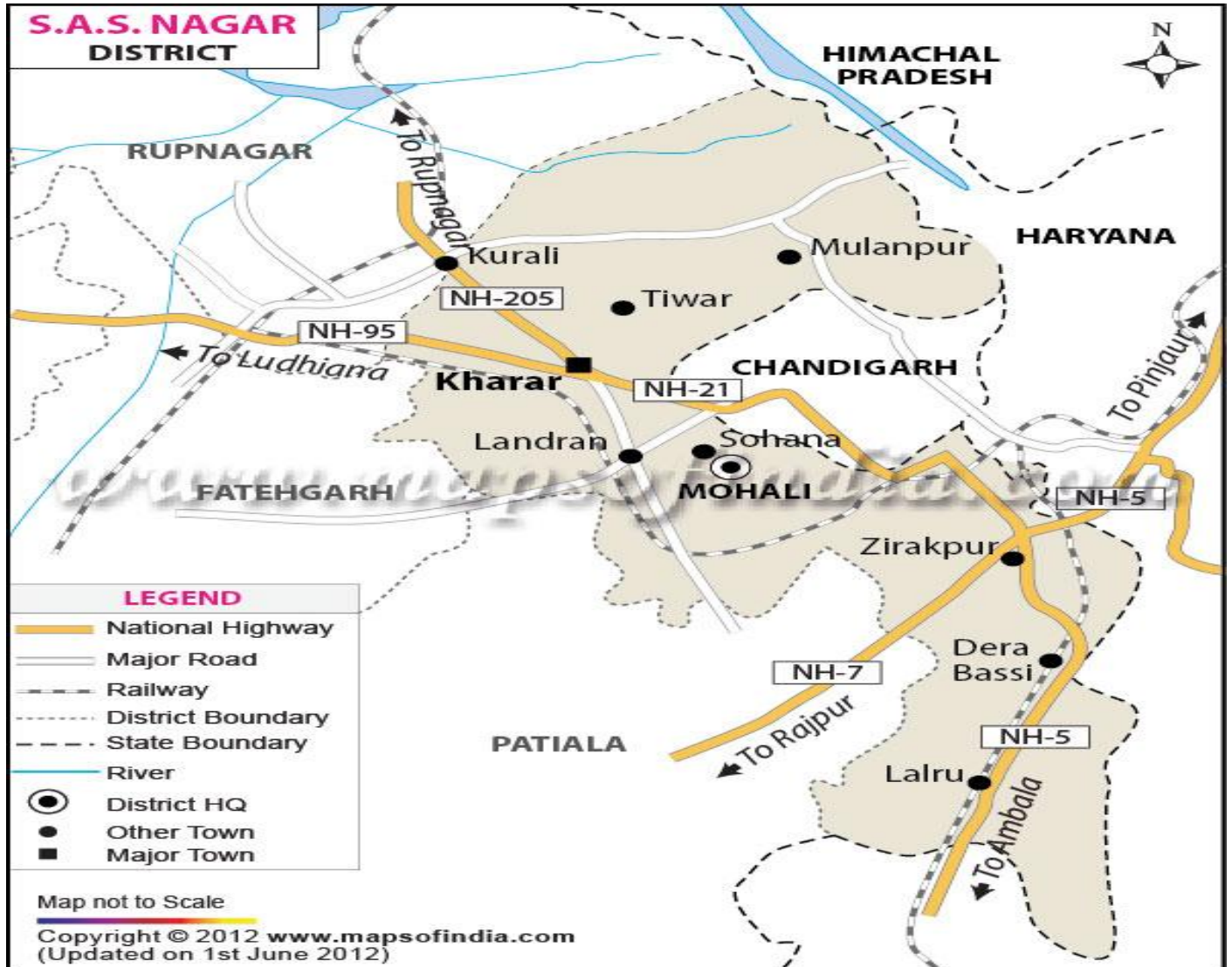


District Environment Plan

District SAS Nagar

Punjab State



Office of District Administration

District Collector SAS Nagar

Office: District Administrative Complex,
Sec. 76, SAS Nagar

E-Mail: dc.sasnagar.punjab@gmail.com

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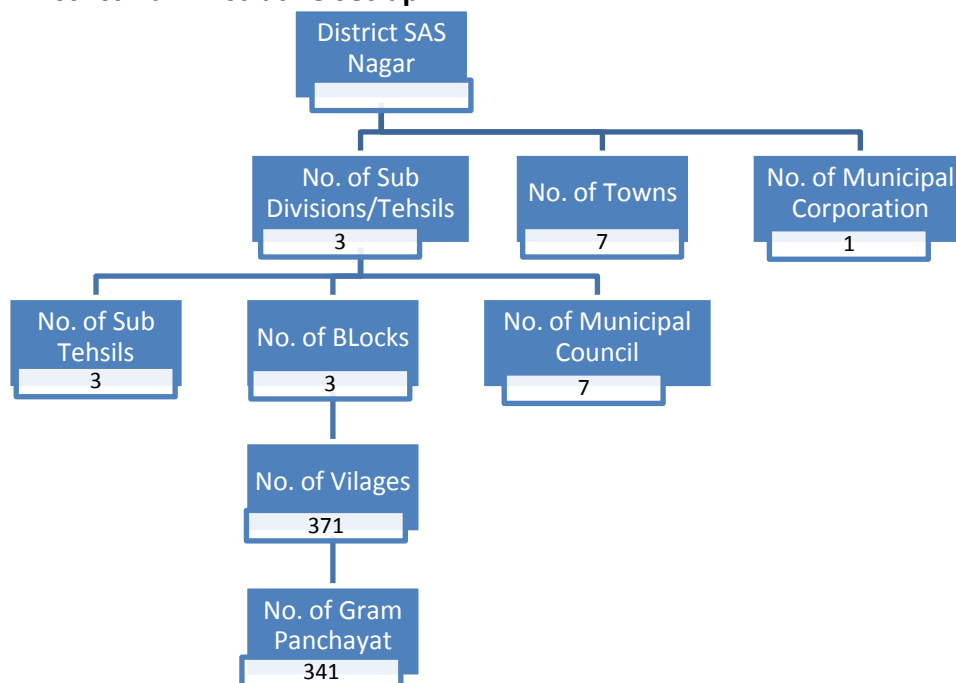
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1.0 District Profile

Sahibzada Ajit Singh Nagar District has been carved out of areas falling in Ropar and Patiala district as 18th District of Punjab on 14th April 2006. Because of its connectivity with the union territory of Chandigarh, the district has been formed to achieve growth of development as this area is emerging as major I.T.hub of Northern India. The district includes Mohali, Kharar and DeraBassi Tehsils. It is located in the north east part of Punjab and is part of Rupnagar division. The District includes 383 villages. The important townships in the district are Kharar, Kurali, Mohali, Zirakpur & DeraBassi. Kharar block is the largest administrative unit of the district with 138 villages followed by Majri block with 116 villages and Derabassi block with 102 villages. 27 villages were newly added in the District Sahibzada Ajit Singh Nagar which were carved out from District Patiala.

a. District Administrative Set-up



b. Local institutions

In District SAS Nagar, there are total 3 Sub-Divisions/Tehsils, 7 towns & 01 Municipal Corporation. There are 03 Sub-Tehsil, 3 Blocks, 7 Municipal Council. There are total 371 Villages in the District & have 341 Gram Panchayats.

c. Natural Resources

➤ River Ghaggar

The major water body following through the District is river Ghaggar which primarily originates from Sirmour Hills in Himachal Pradesh, flows through the Morni Hills in Haryana and enters into the State of Punjab near Village Mubarakpur of Tehsil Derabassi in Distt. SAS Nagar. After passing through the District SAS Nagar, it enters village Tepla of Tehsil Rajpura in Distt. Patiala.

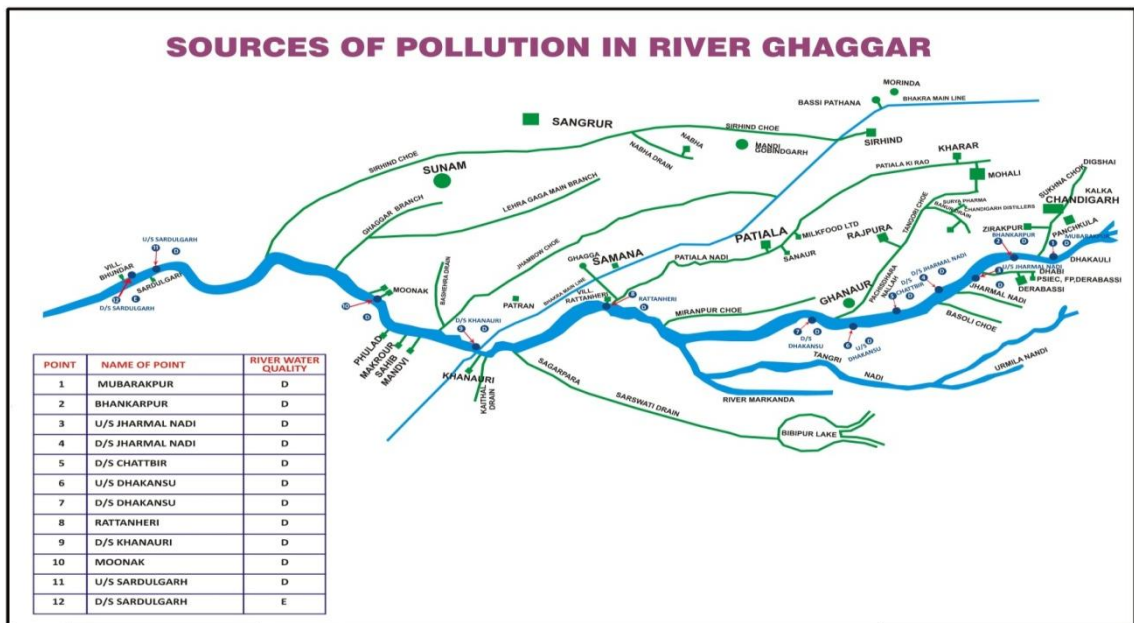
The Ghaggar River and its tributaries form the natural drainage system on Derabassi block of the district. While north-eastern part is drained by Siswan Nadi, Jainti Devi Ki Rao and Patiala ki Rao, which emerge from the Shivalik Hills. The Siswan Nadi drains the northern part of the district and finally converges with Sutlej River in the Ropar district. While JyantiKi Rao and Patiala ki Rao drains in NE-SW direction and joins the Ghaggar River. The river Ghaggar and the drains, meeting with river, are non-perennial and carry surface run off from fields filling in their catchment area during rainy season. However, sewage / sullage of some of the cities, towns and villages situated along the river Ghaggar and other drains is also discharged into the river directly or indirectly through drains/choe etc.

The major drains passing through Distt. SAS Nagar & meeting with River Ghaggar are as per detail given under:-

Sr. No.	Name of the drain	Point of origin	Appro x. Length (in Km)	Coordinates at which the drain meets river Ghaggar	Location at which it meets river Ghaggar	Approx. Discharge (MLD)	Creeks discharging into the drain
1.	Sukhna Choe	Sukhna Lake	8.17	30.3649 76.5009	450 m upstream of Bhankhapur Bridge	105	Drain passing through K- area, Singh Nallah, Gazipur drain, Dhakoli Choe,
2.	DeraBassi Choe	Near Village Haripur Hinduan, DeraBassi	8.75	30.3613 76.4851	Near upstream of Village Satabgarh	17.5	Dhabi Nallah/ Choe
3.	Jharmal Choe	Near village Rampur Sainian, Tehsil DeraBassi, Distt. SAS Nagar	22.86	30.2827 76.4611	Near Village Tiwana	17.5	Hasanpura drain
4.	Basauli Drain	Near Village JaulaKhurd, Distt. SAS Nagar	24.39	30.2639 76.4454	Near Village Sadhanpur	12.5	-
5.	Bagna Drain	Near Village Salempur, Distt. SAS Nagar	19.5	30.3397 76.6986	Village Nanheri, Rajpura	-	-
6.	N Choe a.k.a. Jagatpura Drain	Near PCS, Sector-2, Chandigarh under the name of N-choe	22	30.305197 76.627918	Near Village Sarala-Khurd at Rajpura	125	-
7.	Patiala Ki Rao	Near Village Karoran, Teh. Kharar, Distt. SAS Nagar	29.26	30.305197 76.627918	Near Village Sarala-Khurd at Rajpura	-	Lakhnour Choe
8.	Adhrera Choe/ Siswannadi/ DulchiNadi	Siswan Dam	38.11	30.963861 76.408258	Vill. Beli Kalan, Shri Chamkaur Sahib	200570	-
9.	Jayanti Ki Rao	Near Village Majrian, Teh.	-	Converges into Second	Vill. Beli Kalan, Shri	200570	-

		Kharar, Distt. SAS Nagar		Divertor (at 30.770656, 76.708763) near VillTogan and later Second Divertor converges into SiswanNadi (at 30.808377, 76.657479)	ChamkaurSahib	
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The water quality of river Ghaggar at the entry point in Distt. SAS Nagar at Mubarakpur as well as leaving Distt. SAS Nagar at village Tepla of Tehsil Rajpura in Distt. Patiala (D/S CHATTBIR) is D, which means the water qualifies for best use for propagation for wildlife and fisheries as per criteria prescribed by CPCB. The map of River Ghaggar showing the water quality at various points is as under:



The control of pollution in River Ghaggar is under active considerations of state of Punjab. In this regard, National Green Tribunal (NGT) vide its order dated 7.08.18 passed in case OA no. 138 of 2016 and O.A. no. 139 of 2016 directed to restore the standard of water quality in the river Ghaggar to the prescribed level. NGT also constituted an 'Executing Committee' under Chairmanship of Justice Pritam Pal, State level Special Task Force under Chief Secretary and District level Special Task Force under Deputy Commissioner to monitor the compliance of the order.

Also, NGT vide another order dated 20.09.18 passed in OA no. 673/2018 titled as news item published in "The Hindu" authored by Shri. Jacob Kosuhy titled "More river stretches are now critically polluted: CPCB" has directed to prepare Action Plans for bringing all the polluted river stretches to be fit at least for bathing purposes (i.e BOD <3 mg/l and FC < 500 MPN/100 ml) within six months from the date of finalization of the action plans. Accordingly, the action plan for clean river Ghaggar has been notified by the DECC on 18th January, 2019.

Department of Science Technology and Environment vide its letter no. 10/352/2018-STE(5)/1605949/1 dated 31.10.2019 has constituted a District Environment Committee in compliance to the Hon'ble NGT order dated 26.09.2019 in OA 360 of 2018 titled as Shree Nath Sharma V/s Union of India & Others. The members of the committee are as under:

1.	Deputy Commissioner	Chairman
2.	Additional Deputy Commissioner (Development)	Member Secretary
3.	Nominee of District Judge of the concerned District in his capacity as Head of the Legal Service Authority	Member
4.	Commissioner of Police/Senior Superintendent Police	Member
5.	Commissioner, Municipal Corporation/Executive Officer of ULBs in the District	Member
6.	Chief Administrator, Urban Development Authority	Member
7.	Regional Officer, Punjab Pollution Control Board	Member
8.	Superintending Engineer, PWD (B&R)	Member
9.	Civil Surgeon	Member
10.	Chief Agriculture Officer	Member
11.	Secretary, Regional Transport Authority	Member
12.	General Manager, District Industries Centre	Member
13.	District, Development & Panchayat Officer	Member

The mandate of the action plan is as under:

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

The water quality of river Ghaggar is being monitored at the following five locations in the district, starting from upstream of Mubarikpur (where it enters State of Punjab) upto downstream of JharmalNadi at Vill. Tiwana on monthly basis:

- (i). Ghaggar at Mubarikpur Rest House
- (ii). Ghaggar at Bhankarpur, DeraBassi
- (iii). Ghaggar at D/s Chattbir
- (iv). Ghaggar at U/s JharmalNadi
- (v). Ghaggar at D/s JharmalNadi

Further, the monitoring of the following major drains falling into river Ghaggar is being carried out on monthly basis:-

- (i). Sukhna Choe
- (ii). DeraBassi Choe
- (iii). Jharmal Choe

(iv). Basauli Drain

(v). Bagna Drain

➤ **Availability of water resources**

The major source is ground water. However as per CGWA report the ground water development in certain block of the District has been categorized as over exploited. In major part of the district, the water level ranges between 5 and 10 m while the water level in the northern part is more than 10 m below ground level. The stage of groundwater development in three blocks is given as under:

1. Majri Safe
2. Kharar Over-exploited
3. DeraBassi Over-exploited

➤ **Forest coverage**

The Detail of Forest area of District Ludhiana is as under:-

Sr. no.	Category of area	Ownership	Area in Ha
1.	Reserve Forests	Govt., of Punjab	0
2.	Protected Forest	Govt., of Punjab	790.20
3.	Un-classed Forest	Govt., of Punjab	667.20
Total Block Forest			1457.40
Strips Forest (Protected Forest)			
4.	Road Strips (P.F)	Govt., of Punjab	476.16
5.	Railway Strips (P.F)	Govt., of Punjab	184.83
6.	Canal Strips (P.F.)	Govt. of Punjab	463.46
7.	Dhussi Bands (P.F.)	Govt. of Punjab	205.18
Total Strips Forest (Protected Forest)			1329.63
Total Forest Area			2787.03

d. Geography & Demography

Sr.No.	Title	District Mohali	PunjabState
1.	Area (Sq Km)	423.9402	50,362
2.	Population (in Lakh)	9.94	277.04
3.	Rural Population (in Lakh)	4.50	173.2
4.	Urban Population (In Lakh)	5.44	103.84
5.	% Increase in Population (2001-2011) Decennial Growth rate	33.15	13.55
6.	Density of Population (per Sq km)	910	550
7.	Literacy %	87.77	76.7
8.	Sex Ratio (Females per thousand)	889	893

The total area of District Mohali is 1,098 km² having population 9.94 lakhs. The rural population of District Mohali is 4.50 lakhs and urban population of District Mohali is 5.44 Lakhs. The literacy rate of District Mohali is 87.77 %.

e. Land-use pattern

Sr . No.	Title	Data of DistrictMohali (2020-21)
1.	Total Geographical Area (in Sq km)	176.17
2.	Area under Forest (in Ha)	2787.03
3.	Net Area Sown (In Ha)	77
4.	Gross Cropped Area (in Ha)	106
5.	Total Area irrigated (in Ha)	70
6.	% of Net Area irrigated to Total area sown	91%

The total Geographical Area of District Ludhiana is 3767 km². The Net area sown & irrigated is 292,000 hectare. The gross cropped area is 596,000 hectare of District Ludhiana as per financial year 2020-21. The total reserved forest area of district Ludhiana is 8785.382 hectare.

f. climate

Sahibzada Ajit Singh Nagar has a sub-tropical continental monsoon climate characterised by a seasonal rhythm: hot summers, slightly cold winters, unreliable rainfall and great variation in temperature5 (–1 to 44 °C or 30 to 111 °F). In winter, frost sometimes occurs during December and January. The average annual rainfall is recorded at 617 millimetres (24.3 in). The city also receives occasional winter rains from the west.

g. Wildlife Sanctuaries

There is one notified wildlife sanctuary in Distt. SAS NagarnamelyMohendra Chaudhary Zoological Park, ChhatbirZoo(Wildlife Sanctuary), which is situated at a distance of 15 Km. from SAS Nagar on Zirakpur-Patiala Road and is spread over 505 acre of Government area. Lion, Tiger, Hippopotamus, Black Buck, Chital, Hog Deer, Blue Bull, Wild Boar, Jackal, Rhesus Monkey, Peafowl, Brahminy Myna, Black and Grey Partridges, Quails, Elephant, etc. are found here in this Sanctuary area.

h. Hydrometeorology

The climate of Mohali district can be classified as subtropical monsoon. The normal annual rainfall of the district is 1061 mm which is unevenly distributed over the area in 49 days. The south west monsoon contributes about 80% of annual rainfall.

i. Geomorphologyand Soil Types

The area can be broadly grouped into two depending upon its geomorphic features as alluvial fan and alluvial plains. Alluvial fans are deposited by hill torrents with a wavy plain rather than a steep slope. Adjacent to the alluvial fan are the alluvial plains which forms a

part of large Indo Genetic Quaternary basin comprises of thick sand and silty sand layers inter bedded with silt and clay beds. The major soil type of the district is weakly solonized tropical arid brown soils. The suitability of groundwater for irrigation purpose is calculated by SAR and RSC values. The SAR and RSC value is below the permissible limit of 10.0 and 2.0 mg/l, respectively, in entire district. As per USSL diagram, ground water of the district falls in medium to high salinity hazard and low sodium hazard and hence it is suitable for irrigation in all types of soil.

j. Rain Water harvesting Structure

The harvesting surplus water during excessive rains from any areas of catchment needs be optimized by enhancing the capacity of the existing ponds/water bodies, creation of water harvesting structures in the sub-watersheds to the extent possible, apart from setting up of additional water bodies/water harvesting structures wherever viable, utilizing available funds including under MGNREGA and involving the community at large at every level. Rain water harvesting structures to be created for harvesting water during excessive rains and remodelling / redevelopment of existing ponds / water bodies along with creation of additional water bodies / water harvesting structures may also be incorporated in the District Environmental Plans.

ACTION PLAN

2. WASTE MANAGEMENT PLAN**(i) Solid Waste Management****a. Current status related to solid Waste management**

Sr. no.	Urban Local bodies	No. of Wards	No. of Households	Population (As per 2011 census)	Solid Waste Generated (MT per day)
1.	Municipal corporation ,Mohali	50	40,289	2,02,820	93
2.	Municipal council ,Derabassi	19	18,311	91,000	25.3
3.	Municipal council ,Banur	13	4,400	22,000	5.2
4.	Municipal council ,Kharar	27	23,819	74,589	64
5.	Municipal council ,Kurali	17	8,000	31,060	9
6.	Municipal council ,Lalru	17	8,767	45,000	10
7.	Municipal council ,Zirakpur	31	20,732	93,951	45
8.	Municipal Council, Naya Gaon	21	10,882	80,755	15
	Total	195	1,35,200	6,41,175	266.5

Sr no.	No of Villages	No of Village Panchayats / Blocks	No of Households	Population	Solid Waste Generated per day (MTD)
1.	371	341	1,12,504	4,50,017	90

b. Identification of gaps and Action plan:

S.No.	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.	Municipal Corporation SAS Nagar	Present segregation =98 % Gap=2%	Door to door awareness regarding source segregation and home composting is being done	MC, SAS Nagar	31.12.2021
II.	Municipal Council	100 % segregation	Door to door awareness	MC, Derabassi	Activity Completed

District Environment Plan, SAS Nagar

	Derabassi	achieved no gap.	regarding source segregation and home composting is being done		
III.	Municipal council ,Banur	97 % segregation achieved. Gap=3%	Door to door awareness regarding source segregation and home composting is being done	MC, Banur	31.12.2021
IV.	Municipal council ,Kharar	98 % segregation achieved. Gap=2%	Door to door awareness regarding source segregation and home composting is being done	MC, Kharar	31.12.2021
V.	Municipal council ,Kurali	100 % segregation achieved.	Door to door awareness regarding source segregation and home composting is being done	MC, Kurali	Activity Completed
VI.	Municipal council ,Lalru	85 % segregation achieved. Gap=15%	Door to door awareness regarding source segregation and home composting is being done	MC, Lalru	31.12.2021
VII.	Municipal council , Naya Gaon	96 % segregation achieved, Gap=4%	MC has 1 community facilitator and 2 no. motivators for door to door awareness. However, 2 no. motivators have left the job and work for keeping 2 no. new motivators are under process.	MC, Naya Gaon	31.12.2021
VIII.	Municipal council ,Zirakpur	100 % segregation achieved, no gap	Door to door awareness regarding source segregation and home composting is being done	MC, Zirakpur	Activity Completed
IX.	GMADA Area	There are 4 no. projects developed by GMADA i.e. Aero city, Eco city, IT city and Sector 88-89. In these projects 100 % segregation is being achieved. Further, there are 59 colonies approved by GMADA out of which 5 no. projects are dumping their solid waste at MC Mohali dumpsite and remaining 54 colonies no provision for solid waste management is there. Further, there are 276 unregulated colonies in SAS Nagar and none of the colony have	Notice are being issued to unregulated colonies and colonies regulated by GMADA for ensuring source segregation.	GMADA	For un-regulated colonies and GMADA approved colonies - 31.12.2022

		provided system for door to door segregation.			
X.	Villages Panchayat (341)	Segregation is being done in 17 villages.	<ul style="list-style-type: none"> All BDPOs have been instructed to spread awareness regarding segregation in all villages by conducting Gram Sabhas in all panchayats and by passing resolutions for the same. Bal Sabhas and Women Sabhas would be conducted ward wise in all villages. Solid waste management projects would be established in all villages in phases. We distribute two dustbins to each house hold to segregate wet and dry garbage. Then waste collector collects all the segregated garbage in Rikshaw rehri having two compartments for the wet and dry garbage. We will use funds for these projects from 15th FC, Funds from own income of Gram Panchayats and from NGOs. We have given a list of 100 Panchayats to Round Glass Foundation (NGO) for the year 2022-23. This NGO already provided dustbins to all 	DDPO at District level. BDPOs at block level	30.06.2025 By 30.10.22 =85 villages By 30.10.23=85 villages By 30.10.24 =85 villages By 30.06.25 =86 villages

			Households, waste collector Rehri with compartments for wet and dry garbage in 17 Gram Panchayats. We will train all households by door to door campaign with the help of Round Glass Foundation.		
2	Sweeping				
(i)	Manual Sweeping				
a.	Municipal Corporation SAS Nagar	Municipal Corporation SAS Nagar doing sweeping on daily basis in all residential areas, Public areas, and markets. Municipal Corporation already deployed 100 nos. own staff and 571 nos. contractor manpower to do Sweeping in all Area. 90 % of the sweeping is being done manually and 10 % of the sweeping is being done mechanically.	NA	MC, SAS Nagar	Regular activity
b.	Municipal Council, Banur	100% sweeping being done on daily basis, MC has deployed 42 Safai Sewaks on outsource basis	NA	MC, Banur	Regular activity
c.	Municipal Council, Derabassi	100% sweeping being done manually on daily basis, MC has deployed 180 SafaiSewaks out of which 150 are on outsource basis	NA	MC, Derabassi	Regular activity
d.	Municipal Council, Kharar	100% sweeping being done on daily basis out of which 90% is done manually and 10% is done being mechanically, MC has deployed 298	NA	MC, Kharar	Regular activity

District Environment Plan, SAS Nagar

		SafaiSewaks on outsource basis and 19 own staff.			
e.	Municipal Council, Kurali	100% sweeping being done manually on daily basis, MC has deployed 40 SafaiSewaks on outsource basis and 49 own staff.	NA	MC, Kurali	Regular activity
f.	Municipal Council, Lalru	100% sweeping being done manually on daily basis MC has deployed 123 SafaiSewaks on outsource basis.	NA	MC, Lalru	Regular activity
g.	Municipal Council, Naya Gaon	100% sweeping being done manually on daily basis, MC has deployed 136 SafaiSewaks on outsource basis.	NA	MC, Naya Gaon	Regular activity
h.	Municipal Council, Zirakpur	100% sweeping being done manually on daily basis, MC has deployed 338 SafaiSewaks on outsource basis.	NA	MC, Zirakpur	Regular activity
i.	GMADA	100% GMADA already deployed contractor manpower to do sweeping in all Area under its jurisdiction.	NA	GMADA	Regular activity
j.	Villages Panchayat (341)	10% sweeping being done. 90% road is not Covered.	More manpower is being deployed.	DDPO	31.10.2024 BY 31.10.2022 =113 Villages BY 31.10.2023= 114 Villages BY 31.10.2024 = 114 Villages
(ii)	Mechanical Road Sweeping and Collection		<ul style="list-style-type: none"> • MC, Mohali- 100% mechanical sweeping is done on "A" roads. However, sweeping of B and C roads including commercial areas and residential areas are done manually. • MC, Kurali – 100% area covered manually. • MC, Lalru- 100% area covered manually. • MC, Nayagaon- 100% area covered manually. 	Urban Local Bodies	MC, Derabassi- 31.12.2021

			<ul style="list-style-type: none"> • MC, Zirakpur- 100% area covered manually. • MC, Kharar- Mechanical Sweeping on major roads operational. Internal Road are narrow and made of paver blocks. • MC, Banur-100% area covered manually. • MC, Derabassi- 100% area covered manually. Resolution of purchase of mechanical sweeping machine has been passed by the MC. 																	
3	Waste Collection																			
I.	100% collection of solid waste	<ul style="list-style-type: none"> • ULBs = no gap • Villages Arrangements are to be provided in villages panchayats (341) = Not adequate arrangements 	<p>At Present, 100% Door to door collection is being done by all ULBs.</p> <p>The detail of collection vehicle is as under:</p>	ULBs and Department of Rural development	<p>Villages Panchayats (341)</p> <ul style="list-style-type: none"> • Time target and for arranging remaining vehicles. = 30.06.2025 BY 31.10.2022 =85 vehicles BY 31.10.2023 =85 vehicles BY 31.10.2024 =85 vehicles BY 30.06.2025 =86 vehicles Source of fund. = State Level <p>Villages Panchayats (341)</p> <ul style="list-style-type: none"> • Timeline to provide the transport and waste transfer points= 30.06.2025 BY 31.10.2022 =85 villages BY 31.10.2023 =85 villages BY 31.10.2024 =85 villages BY 30.06.2025 =86 Villages 															
II.	Arrangement for door to door collection	<ul style="list-style-type: none"> • D2D collection by MCM = 100 % • D2D collection by remaining Municipal Council =100 % 	<table border="1"> <thead> <tr> <th>S No.</th> <th>Name of MCs</th> <th>No. of collect/Transportation Vehicle</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Mohali</td> <td>2 Tractor 6 Tipping Truck 3 Dumper Placer 3 Other 3 JCB/Loader</td> </tr> <tr> <td>2.</td> <td>Kharar</td> <td>5 Tractor 10 Dumper Placers 3 Other 3 JCB/Loader</td> </tr> <tr> <td>3.</td> <td>Kurali</td> <td>2 Tractor 1 Dumper Placer 40 (Tricycle) 1 Tata Ace</td> </tr> <tr> <td>4.</td> <td>Zirakpur</td> <td>8 Tractor 2 Dumper Placer</td> </tr> </tbody> </table>			S No.	Name of MCs	No. of collect/Transportation Vehicle	1.	Mohali	2 Tractor 6 Tipping Truck 3 Dumper Placer 3 Other 3 JCB/Loader	2.	Kharar	5 Tractor 10 Dumper Placers 3 Other 3 JCB/Loader	3.	Kurali	2 Tractor 1 Dumper Placer 40 (Tricycle) 1 Tata Ace	4.	Zirakpur	8 Tractor 2 Dumper Placer
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4.	Zirakpur	8 Tractor 2 Dumper Placer																		
III.	Waste Collection trolleys with separate Compartments	<ul style="list-style-type: none"> • MCM = Adequate • Remaining 7 ULBs = adequate 																		
IV.	Mini Collection Trucks with separate compartments	<ul style="list-style-type: none"> • MCM = Adequate • Remaining 7 ULBs = adequate 																		

			5.	Naya Gaon	2 Tractor 1 Dumper Placer			
			6.	Dera bassi	4 Tractor 2 Dumper Placer 2 Compact ors			
			7.	Lalru	2 Tractor/ 1 Trolley 1 Hydraulic Machine			
			8.	Banur	2 Tractor			
			<p>Villages Panchayats (371) =</p> <ul style="list-style-type: none"> Total no. compartment wise solid Waste Collection trolleys/rikshaws required = 2823 No. Available = Nil <p>Villages Panchayats (371) = Transport and waste transfer points are being arranged</p>					

i. Waste Deposition centres (for domestic hazardous wastes)						
I.	Municipal Corporation SAS Nagar	<ul style="list-style-type: none"> Required= 15 Installed=15 No Gap 	-	MC, Mohali	Activity Completed	
II.	Municipal Council, Banur	<ul style="list-style-type: none"> Required= 1 Installed=1 No Gap 	-	MC, Banur	Activity Completed	
III.	Municipal Council, Derabassi	<ul style="list-style-type: none"> Required= 3 Installed=3 No Gap 	-	MC, Derabassi	Activity Completed	
IV.	Municipal Council, Kharar	<ul style="list-style-type: none"> Required= 13 Installed=7 	-	MC, Kharar	31.03.2022	
V.	Municipal Council, Kurali	<ul style="list-style-type: none"> Required= 1 Installed=1 No Gap 	-	MC, Kurali	Activity Completed	
VI.	Municipal Council, Lalru	<ul style="list-style-type: none"> Required= 5 Installed=3 	-	MC, Lalru	31.03.2022	

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VII.	Municipal Council, Naya Gaon	MC is getting door to door collection and disposal of solid waste through third party. Hence, not required.	-	MC, Naya Gaon	Activity Completed
VIII.	Municipal Council, Zirakpur	• Required= 4 Installed=4 No Gap	-	MC, Zirakpur	Activity Completed
IX.	Villages Panchayat (341)	Required= 305 Installed = 0	Action plan is yet to be prepared along-with solid waste management.	DDPO & XEN Panchayati Raj	31.10.2022 for preparation of Action Plan. For Implementation 31.10.2026. 85 (WDC) = 31.10.2023 85 (WDC) = 31.10.2024 85 (WDC) = 31.10.2025 86(WDC) = 31.10.2026
X.	GMADA Area	Yet to provided	DNIT for setting up of Resource Management Centre at Aerocity, IT City and Sec-88-89 is under approval.	GMADA	Work will be completed by 30.04.2022.
4 Waste Transport					
I.	Review existing infrastructure for waste Transport.	(i) Existing fleet is Adequate in MCM & all MCs (ii) segregated waste transport Possible in MCM & all MCs. No Gap	-	Urban Local Bodies	Activity Completed
II.	Bulk Waste Trucks	Adequate in MCM & all MCs No Gap	-	Urban Local Bodies	Activity Completed
III.	Waste Transfer points	Available & Adequate in MCM & all MCs No Gap	-	Urban Local Bodies	Activity Completed
6 Waste Treatment and Disposal					
(i)	Wet-waste Management: On-site composting by bulk waste generators(Authority may decide on requirement as per Rules)	As and when BWG are being identified, they are being directed to provide on-site composting. Presently, there are: MC Naya Gaon – 2 no. BWGs	Bulk waste generators are being directed to ensure compliance.	Urban Local Bodies	MC Lalru – 31.01.2022 MC Zirakpur – 31.03.2022 MC, Kharar - 31.12.2022

		<p>identified by MC Naya Gaon.All BWGs of MC Naya Gaon are ensuring compliance of SWM Rules, 2016</p> <p>MC Banur - 4 no. BWGs identified by MC Banur.All BWGs are ensuring compliance of SWM Rules, 2016</p> <p>MC Derabassi - 7 no. BWG identified by MC Derabassi. All BWGs of MC Derabassi are ensuring compliance of SWM Rules, 2016.</p> <p>MC Kharar - 18 BWGs identified by MC Kharar. Out of which 08 no. BWGs of MC Kharar are ensuring compliance of SWM Rules, 2016.</p> <p>MC Zirakpur - 146 no. BWG identified by MC Zirakpur. Out of which 19 no. BWGs of MC Zirakpur are ensuring compliance of SWM Rules, 2016</p> <p>MC Kurali - 4 no. BWG identified by MC Kurali.All BWGs of MC Kurali are ensuring compliance of SWM Rules 2016 and agreement also done.</p> <p>MC SAS Nagar - 43 no. BWGs identified by MC SAS Nagar.All BWGs of MC SAS Nagar are ensuring compliance of</p>			
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		SWM Rules 2016 MC Lalru - 28 no. BWGs identified by MC SAS Nagar. Out of which 14 no. BWGs of MC SAS Nagar are ensuring compliance of SWM Rules 2016.			
ii.	Wet-waste Management: Facilities for central Bio methanation/ Composting of wets waste.				
I.	Municipal Corporation SAS Nagar	200 Compost pits provided. functional and adequate	Not required	MC, SAS Nagar	Activity Completed
II.	Municipal Council, Banur	22 Compost pits provided. functional and adequate	Not required	MC, Banur	Activity Completed
III.	Municipal Council, Derabassi	91 Compost pits provided. functional and adequate	Not required	MC, Derabassi	Activity Completed
IV.	Municipal Council, Kharar	69 Compost pits provided. functional and adequate	Not required	MC, Kharar	Activity Completed
V.	Municipal Council, Kurali	47 Compost pits provided. functional and adequate	Not required	MC, Kurali	Activity Completed
VI.	Municipal Council, Lalru	68 Compost pits provided. functional and adequate	Not required	MC, Lalru	Activity Completed
VII.	Municipal Council, Naya Gaon	agreement with Friends Associates Company, Panchkula for processing the dry and wet waste for processing the dry and wet waste	Not required	MC, Naya Gaon	Activity Completed
VIII.	Municipal Council, Zirakpur	199 Compost pits provided. functional and adequate	Not required	MC, Zirakpur	Activity Completed
IX.	Villages Panchayat (341)	Not adequate	Plan yet to prepared	DDPO & XEN Panchayati Raj	31.03.2023
X.	GMADA Area	There are 4 no. projects developed by GMADA i.e. Aero city, Eco city, IT city and Sector 88-89. In these	DNIT for setting up of Resource Management Centre at Aerocity, IT City and Sec-88-89 is under approval.	GMADA	GMADA developed projects - Work for commissioning of Resource Management Centre will be completed by 30.04.2022.

		<p>projects presently the wet-waste is being dumped at MC Mohali composting pit site.</p> <p>Further, there are 59 colonies approved by GMADA out of which 5 no. projects are dumping their solid waste at MC Mohali dumpsite and remaining 54 colonies no provision for solid waste management is there.</p> <p>Further, there are 276 unregulated colonies in SAS Nagar and none of the colony have provided system for wet waste management</p>	<p>Notices are being issued to unregulated colonies and colonies regulated by GMADA for ensuring source segregation.</p>		<p>For un-regulated colonies and GMADA approved colonies - 31.12.2022</p>																								
XI.	<p>Dry-Waste Management: Material Recovery for dry-waste fraction</p>	<ul style="list-style-type: none"> MCM= 15 MRF sheds provided. Remaining 7 ULBs as under <table border="1"> <thead> <tr> <th>S No.</th> <th>Name of ULBs</th> <th>No. Of MRF Sheds</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Khara r</td> <td>7</td> </tr> <tr> <td>2.</td> <td>Kurali</td> <td>1</td> </tr> <tr> <td>3.</td> <td>Zirak pur</td> <td>4</td> </tr> <tr> <td>4.</td> <td>Naya Gaon</td> <td>0</td> </tr> <tr> <td>5.</td> <td>Dera bassi</td> <td>3</td> </tr> <tr> <td>6.</td> <td>Lalru</td> <td>3</td> </tr> <tr> <td>7.</td> <td>Banur</td> <td>1</td> </tr> </tbody> </table> <p>No gap in all ULBs except MC Kharar and MC Lalru. MC, Nayagaon has made agreement for getting the collection, transportation,</p>	S No.	Name of ULBs	No. Of MRF Sheds	1.	Khara r	7	2.	Kurali	1	3.	Zirak pur	4	4.	Naya Gaon	0	5.	Dera bassi	3	6.	Lalru	3	7.	Banur	1	<p>6 no. more MRF under installation in MC, Kharar and 2 more no. MRF sheds planned in MC, Lalru.</p>	Urban Local Bodies	31.03.2022
S No.	Name of ULBs	No. Of MRF Sheds																											
1.	Khara r	7																											
2.	Kurali	1																											
3.	Zirak pur	4																											
4.	Naya Gaon	0																											
5.	Dera bassi	3																											
6.	Lalru	3																											
7.	Banur	1																											

		<p>processing and disposal of Solid Waste generated within MC Limit from private party M/s Friends Associates Lalru.</p>			
		<p>DDPO-Dry waste management is being done in 17 villages.</p>	<ul style="list-style-type: none"> • All BDPOs have been instructed to spread awareness regarding dry waste management in all villages by conducting Gram Sabhas in all panchayats and by passing resolutions for the same. • Bal Sabhas and Women Sabhas would be conducted ward wise in all villages. • Solid waste management projects would be established in all villages in phases. We distribute two dustbins to each house hold to segregate wet and dry garbage. Then waste collector collects all the segregated garbage in Rikshaw rehri having two compartment 	<p>DDPO at District level. BDPOs at block level</p>	<p>30.06.2025 By 30.10.22 =85 villages By 30.10.23=85 villages By 30.10.24 =85 villages By 30.06.25 = 86villages</p>

			<p>s for the wet and dry garbage.</p> <ul style="list-style-type: none"> • We will use funds for these projects from 15th FC, Funds from own income of Gram Panchayats and from NGOs. • We have given a list of 100 panchayats to Round Glass Foundation (NGO) for the year 2022-23. This NGO already provided dustbins to all Households, waste collector Rehri with compartment s for wet and dry garbage in 17 Gram panchayats. • We will train all households by door to door campaign with the help of Round Glass Foundation. 	
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District Environment Plan, SAS Nagar

XII.	Disposal of inert and non-recyclable wastes into Sanitary Landfill	(i) MCM = 1 SLF site already constructed and 1 more being identified, remaining 7 MCs as under:		1 no. SLF site in MC Kurali, MC, Banur and MC, Mohali have been identified and is under construction. Rests of the ULBs are under process of identification.	Urban Local Bodies	31.03.2022- MC Kurali, MC, Banur and MC, Mohali 30.09.2022- Remaining ULBs	
		S No.	Name of ULBs				No. Of SLF
		1.	Khara r				0
		2.	Kurali				1
		3.	Zirak pur				0
		4.	Naya Gaon				0
		5.	Dera bassi				1
		6.	Lalru				1
7.	Banur	1					
(ii) Villages Panchayat = Yet to Established							
iii Remediation of historic / legacy dumpsite							
I.	Municipal Corporation SAS Nagar	Existing legacy waste required remediation Qty. of waste 3.30 lakh (approx).	The solid waste lying dumped at the dumping site of the ULB needs remediation.	MC, Mohali	31.03.2023		
II.	Municipal Council, Banur	Existing legacy waste required remediation. Qty. of waste 12700 Ton.	The solid waste lying dumped at the dumping site of the ULB needs remediation.	MC, Banur	31.03.2023		
III.	Municipal Council, Derabassi	Existing legacy waste required remediation. Qty. of waste 2500 Ton.	The solid waste lying dumped at the dumping site of the ULB needs remediation.	MC, Derabassi	31.03.2023		
IV.	Municipal Council, Kharar	Existing legacy waste required remediation. Qty. of waste 1.21 lakh Ton.	The MC, Kharar has awarded job agreement with the private agency for the removal of legacy waste from the existing dumpsite.	MC, Kharar	31.03.2023		

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V.	Municipal Council, Kurali	Existing legacy waste required remediation. Qty. of waste 150 Ton. 20% remediation done.	The solid waste lyingdumped at the dumping site of the ULB needs remediation.	MC, Kurali	31.03.2023
VI.	Municipal Council, Lalru	Existing legacy waste required remediation. Qty. of waste 10000 Ton.	The solid waste lyingdumped at the dumping site of the ULB needs remediation.	MC,Lalru	31.03.2023
VII.	Municipal Council, Naya Gaon	No legacy waste is lying dumped within MC limit as the MC is not having any dumping site of its own and is getting the waste collected and processed through 3 rd party who process it at its site at lalru.	-----	MC, Naya Gaon	Activity Completed
VIII.	Municipal Council, Zirakpur	Existing legacy waste required remediation. Qty. of waste 53,000 Ton.	The solid waste lyingdumped at the dumping site of the ULB needs remediation.	MC, Zirakpur	31.03.2023
IX.	Villages Panchayat (341)	There are no historic dumpsites in villages	There are no dumpsites in villages	DDPO	Activity completed
X.	Involvement of NGOs	Yes	NGOs shall be identified for the purpose.	Urban Local Bodies	Regular Activity
XI.	EPR of Producers: Linkage with Producers /Brand Owners	There are 6 no. brand owners,15 no. producers identified in the district out of these none of the producer and brand owner has submitted action plan.	All the producer/brand owners will be directed to submit the action plan for the disposal of its plastic waste under extended producer responsibility.	Urban Local Bodies	30.06.2022
XII.	Authorization of Waste Pickers	MC Mohali – There are 571 no. Pickers/ waste collector which	Available	Urban Local Bodies	MC Banur – 30.11.2021

		<p>are authorized by MC Mohali.</p> <p>MC Kharar - There are 77 no. Pickers/ waste collector which are authorized by MC Kharar.</p> <p>MC Derabassi - There are 28 rag pickers/ waste collector which are authorized by MC Derabassi.</p> <p>MC Kurali - There are 12 rag pickers/ waste collector which are authorized by MC Kurali.</p> <p>MC Lalru - There are 5 rag pickers/ waste collector which are authorized by MC Kurali.</p> <p>MC Banur - No waste picker yet authorized.</p> <p>MC Zirakpur - There are 235 Informal waste pickers will be authorized.</p>			
XIII.	Preparation of own by-laws to comply with SWM Rules 2016	All MCs Prepared. DDPO (for villages 371) yet to be prepared	All MCs Prepared. DDPO (for villages 371) yet to be prepared	ULBs and DDPO	All MCs = Activity Completed DDPO (for villages 371)= 31.03.2022
XIV.	Removal of garbage vulnerable points (GVPs)	MC, Zirakpur and MC, Derabassi has identified GVPs and the same has been cleared.MC Mohali has identified GVPs and the same has been cleared. No gap, as activity	Activity Completed	All ULBs (Municipal Corporation, Municipal Council and Nagar Panchayat) of the district.	Activity Completed

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		Completed			
XV.	Provision of green belt and boundary wall around solid waste dumping site.	Out of 8 ULBs, only MC, Lalru and Banur has provided boundary wall around solid waste dumping site. Pending in 6 ULBs. Further, none of the ULBs have developed green belt around solid waste dumping site except MC Mohali. Pending in 7 ULBs.	Boundary Wall around dumping site=31.03.2022 Green belt around Boundary wall=yet to provided and will be completed by 30.06.2022	All ULBs (Municipal Corporation, Municipal Council and Nagar Panchayat) of the district.	Boundary Wall around dumping site=31.03.2022 Green belt around Boundary wall 30.06.2022
XVI.	Providing compartments and GPS tracking in garbage carrying vehicles	Municipal corporation Mohali Nil as activity completed Remaining7 Municipal Council Nil as activity completed	All the mechanical waste collection vehicles have been provided with GPS.	All ULBs (Municipal Corporation, Municipal Council and Nagar Panchayat) of the district.	Activity Completed
XVII.	Stopping solid waste/ garbage being thrown into drains		<ul style="list-style-type: none"> • MC, Mohali- MC S.A.S Nagar has identified points adjoining flow of N Choe where waste/ garbage is being thrown into drain. MC S.A.S Nagar is planning to fix chain link fencing around the N Choe. • MC, Kurali – There is 100% source segregation has been done in MC Kurali. So Nobody throw garbage in drains and water bodies. • MC Zirakpur– There is 100% source segregation has been done in MC Zirakpur. So Nobody throw garbage in 	All ULBs (Municipal Corporation, Municipal Council and Nagar Panchayat) of the district.	30.06.2022

			<p>drains and water bodies.</p> <ul style="list-style-type: none"> • MC Kharar– There is 100% source segregation has been done in MC Kharar. Nobody throw garbage in drains and water bodies. Drains are well covered with concrete slabs. • MC Derabassi- There is 100% source segregation has been done in MC Derabassi. So Nobody throw garbage in drains and water bodies. • MC Lalru - There is 100% source segregation has been done in MC Lalru. So Nobody throw garbage in drains and water bodies. • MC Naya Gaon - There is 100% Source segregation has been done in M.C Naya Gaon. So nobody throw garbage in drains and water bodies. • MC Banur -There is 100% Source segregation has been done in M.C Banur. So nobody throw garbage in drains and water bodies. 		
XVIII.	<p>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)</p>	<p>Yet to be done by all MCs</p>	<ul style="list-style-type: none"> • MC Kurali – There is no Leachate at dumpsite of M. C kurali. • MC Zirakpur – There is no Leachate at dumpsite of M. C kurali. 	<p>All ULBs and Department of Urban Development</p>	<p>MC Kharar – 31.03.2022. MC Mohali – 31.03.2022. MC Derabassi – 31.03.2022</p>

			<ul style="list-style-type: none"> • MC Kharar – There is no Leachate at dumpsite of M. C Kharar. • MC Mohali - MC S.A.S Nagar has one dumpsite. Treatment of leachate generated from legacy waste will be done by installing ETP. • MC Naya Gaon- There is no Legacy waste in M.C Limit. • MC Derabassi – The MC has passed resolution for purchasing of separator. • MC Banur – There is no Legacy waste in M.C Limit. • MC Lalru - There is no Legacy waste in M.C Limit. 		
XIX.	Best practices, including setting up of Control Rooms where citizens can upload photos of garbage which may be looked into by the specified representatives of local bodies, at local level as well as State level. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)	All MCs have provided infrastructure/ service for monitoring garbage related complaints except MC Lalru.	<ul style="list-style-type: none"> • MC Kurali – Complaint received manually at complaint centre of M.C Kurali. and SwachhtaMoHUA app created for citizen complaints by Ministry of Housing and Urban affairs • MC Kharar– GPS based swachhata App at MC Kharar and complaints are being addressed within the specified service level benchmark. App name - Swachh City, Whatsapp no. 9646071713. • MC Mohali - MC 	All Local bodies	Activity Completed

			<p>S.A.S Nagar has already swachhata app, M-Sewa portal, water and sewerage complaint number 14420,Toll free number (18001370007), Whatsapp number (9463775070) for entertaining the complaints of citizens.</p> <ul style="list-style-type: none"> • MC Lalru - GPS based swachhata App at MC Lalru and complaints are being addressed within the specified service level...whatapp No. of Nodal Officer 9780331900. • MC Naya Gaon - SwachhtaMoHUA app created for citizen complaints by Ministry of Housing and urban affairs. MC Naya Gaon released a mobile no for any complaints regarding solid waste, mobile no is 7888377265 • MC Derabassi– MC have already made 2 control rooms. • MC Zirakpur– 1 control room has already made. SwachhtaMoHUA app created for citizen complaints by Ministry of Housing and Urban affairs. MC Zirakpur released a mobile no. for any complaints regarding solid waste, mobile no. is 9855286846, 9646200483 • MC Banur– SwachhtaMoHUA 	
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			app created for citizen complaints by Ministry of Housing and urban affairs and Whatsapp number (96288-00004) for entertaining the complaints of citizens.		
XX.	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)	Only 2 MCs i.e. MC Kurali and Lalru have installed CCTV cameras.	<ul style="list-style-type: none"> • MC Kurali – 100% area of dumpsite covered with nearby CCTV cameras installed at STP Kurali. • MC Mohali - Installation of CCTV cameras at dumpsite is under process. Estimate has been prepared and forwarded for approval of F&CC. • MC Lalru - CCTV camera already installed. • MC Naya Gaon - No land available for dumpsites so no cctv camera has been installed yet. • MC Kharar- CCTV camera have been installed at the MC Khararat compost site. However, yet to be provided at dumping site. • MC Derabassi - Solid waste site is being identified and work installation of CCTV cameras will be carried out after identification. • MC Zirakpur – CCTV camera work are under process. 	All Local bodies	<p>MC Mohali – 31.03.2022</p> <p>MCKharar – 31.03.2022</p> <p>MC Derabassi – 31.12.2021</p> <p>MC Zirakpur – 31.12.2021</p> <p>MC Banur – 31.12.2021</p>

			<ul style="list-style-type: none"> • MC Banur - Installation of CCTV cameras at dumpsite is under process 		
XXI.	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)	4 MCs i.e. MC Kharar, Lalru, SAS Nagar and Zirakpur have installed piezometer at dump site.	<ul style="list-style-type: none"> • MC Kurali - Tender Floated • MC Derabassi - Work under process • MC Kharar - Bioremediation of dump site has been awarded and piezometer will be installed after completion of bioremediatio. • MC Lalru - Piezometer has installed. • MC Naya Gaon - No land available for dumpsites so no cctv camera has been installed yet. • MC Zirakpur - The MC has installed 3 Piezometers at dump site. • MC Mohali - Already installed. • MC Banur - Work under process 	All Local bodies	<p>MC Kurali – 17.11.2021</p> <p>MC Derabassi – 31.12.2021</p> <p>MC Kharar – 30.06.2022</p> <p>MC Banur – 31.12.2021</p>
XXII.	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)		<p>MC Mohali - At present there is no land for HaddaRodi (carcass disposal) is available with in municipal limit of MC SAS Nagar. Presently disposal of carcass is outsourced through tendering process and disposal of carcass is done outside municipal limits of MC SAS Nagar. Municipal Corporation SAS Nagar is planning to set up incinerator for disposal of small</p>	All Local Bodies and DDPO	<p>MC Mohali – 31.03.2022</p> <p>MC Lalru – 31.01.2022</p> <p>DDPO- 31.03.2023.</p> <p>MC Kharar – 31.12.2022</p>

			<p>dead animals.</p> <p>MC Kurali - There is no carcass in the limits of MC Kurali.</p> <p>MC Lalru - Matter has been taken with concerned department.</p> <p>MC, Kharar- Matter has been taken with concerned department.</p> <p>DDPO-For immediate measures to be adopted, All the BDPOs have been instructed to raise hedges and for plantation parallel to the boundary walls in all the Carcasses in villages.</p>	
XXIII.	<p>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</p>		<p>MC Derabassi has already outsourced the Carcass disposal work as 1000/- per dead animal.</p> <p>MC SAS Nagar is planning to set up incinerator for disposal of small dead animals.</p> <p>MC Kurali - There is no carcass in the limits of MC Kurali.</p> <p>MC Lalru - Matter has been taken with concerned department.</p> <p>MC Zirakpur – Contract already in progress</p> <p>MC, Kharar- Matter has been taken with concerned department.</p> <p>DDPO-Matter has</p>	<p>All Local Bodies and DDPO</p> <p>MC Mohali – 31.03.2022</p> <p>MC Lalru – 31.01.2022</p> <p>MC Zirakpur – 28.07.2022</p> <p>DDPO- 31.03.2023.</p> <p>MC Kharar – 31.12.2022</p>

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			been taken with concerned department.		
XXIV.	Management of waste water and solid waste by the unauthorized colonies/residential complex/commercial complex developed by Pvt. Colonizers.	100% gap as no work started.	MC Kharar has identified 26 unauthorized colonies. Remaining ULBs are yet to identify the colonies.	All ULBs (Municipal Corporation, Municipal Council) of the district/GMAD A	<ul style="list-style-type: none"> • Identification by 31.3.2022 • Management of solid waste collection & segregation = 6 months • Provision of STPs= 2 years The STP & arrangement for solid waste management will be provided by the project proponent/welfare society.
XXV.	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 village	Scheme is Yet to prepared	DDPO	31.03.2022
XXVI.	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. Promoters and Residents are informed when the joint team visits their colonies and they are encouraged to follow the solid and liquid waste management rules.	All ULBs (Municipal Corporation, Municipal Council and Nagar Panchayat) of the district.	Regular Activity
XXVII.	Constitution of District Environment Committee in view of the	No gap	Constituted by the State Government.	State Government	Activity completed

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	constitution provisions under article 243 G, 241 W and 243 ZD read with scheduled 11, 12 & 15 of SWM Rules, 2016.				
XXVIII.	Management of carcass in rural area.	Inadequate management of carcass in rural area.	No. of carcasses existing = Nil No. of carcass provided liquid waste management = NIL	DDPO	31.10.2024
XXIX.	Dry-Waste Management: Material Recovery for dry-waste fraction (RDF)	100 % gap	Work yet to be started.	All ULBs	31.12.2022
XXX.	Solid waste management by ULBs i. ULBs shall construct compost pits of adequate capacity to treat whole of the wet waste generated by ULBs and the timelines for the same may be mentioned in the District Environmental Plan, Mohali.	No Gap.	<ul style="list-style-type: none"> • MC Kurali – 47 compost units constructed for wet waste processing • MC SAS Nagar -MC S.A.S Nagar has constructed 200 compost pits for composting of wet waste after processing with composting machine and target has already been achieved. • MC Lalru - 66 pits has been constructed in the city. • MC Derabassi – 91 pits has been constructed in the city. • MC Naya Gaon – MoU signed with third party for solid waste management. 	All ULBs	Activity Completed

			<ul style="list-style-type: none"> • MC Banur – 22 Pits has been constructed in the city. • MC Zirakpur - 199 composting pits constructed. • MC Kharar - 69 no. composting pits 		
	ii. Dry Waste generated by the ULBs may be treated/ managed at the material recovery facilities.	No Gap	All the MCs have provided MRF sheds for segregation of dry waste hence all the dry waste is being managed by the MCs.	All ULBs	Activity completed
	iii. ULBs shall make the solid waste processing plant in operation on priority basis and in a time bound manner.	No Gap	All the ULBs are ensuring source segregation of solid waste. The collected wet waste is being disposed in compost pits and dry waste disposal is being collected in MRFs centres where it is segregated into glass, cardboard, plastic etc. which is being disposed to Kabadis. Further, no planning of setting up of processing plant is there in any of the ULB.	All ULBs	Activity completed
XXXI.	Management of Horticulture Waste in MCs.	No gap	<ul style="list-style-type: none"> • MC Kurali – There is one park in the limits of MC Kurali and onsite composting done • MC SAS Nagar - MC S.A.S Nagar have constructed 540 pits for 	All ULBs	Activity completed for 7 ULBs. MC Banur - 31.03.2022

			<p>horticulture waste. Shredder has been purchased for processing of horticulture waste.</p> <ul style="list-style-type: none"> • MC Zirakpur – 13 Pits constructed in 6 parks for horticulture waste. • MC Derabassi – MC has constructed pits in 6 parks • MC Kharar – Horticulture waste has been processed using mechanical shredder at MC Kharar • MC Banur – 4 no. parks is being developed by MC in which pits will be provided for management of horticulture waste • MC Lalru - 6 pits has been constructed for horticulture waste. • MC Naya Gaon - There is no park in MC Limit 		
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(ii) Plastic waste Management

(a) Current status related to Plastic waste management

	Urban Local bodies	Estimated quantity of Plastic Waste Generated MTD
1.	Municipal Corporation SAS Nagar	2.00

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2.	Municipal Council, Banur	0.01
3.	Municipal Council, Derabassi	1.37
4.	Municipal Council, Kharar	2.1
5.	Municipal Council, Kurali	1.11
6.	Municipal Council, Lalru	0.71
7.	Municipal Council, Naya Gaon	0.14
8.	Municipal Council, Zirakpur	1.51
	Total	8.95

	Local Bodies	Estimated quantity of Plastic Waste Generated per day
1	Villages Panchayats (341)	6.3 TPD

Plastic Industry Registration

1	Total No. of Plastic Units required registration	30
2	Total no. of Plastic units obtained registration	13

(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	<ul style="list-style-type: none"> MCM= Nil. Other 7ULBs =Nil. Villages Panchayat (341) =Not initiated. 	At Present, 100% Door to door collection is being done by MC, Mohali and other 7 MCs.	Urban Local Bodies & DDPO	DDPO:- 31.08.2026 68 villages by 31.08.2022 68 villages by 31.08.2023 68 villages by 31.08.2024 68 villages by 31.08.2025. 69 villages by 31.08.2026
2.	Facilitate organized collection of PW at Waste transfer point or Material Recovery Facility	<ul style="list-style-type: none"> No gap since 100% collection and MRF facility provided in MC, Mohali and other 7 ULBs. Villages 	<ul style="list-style-type: none"> Ban is proposed on single use plastic. NGOs are involved for awareness to avoid plastic use. Registration is being done for waste pickers. 	Urban Local Bodies & DDPO	DDPO = 31.10.2023 Activity completed for ULBs.

		panchayats (341) = partial collection.																											
3.	PW collection Centres	Adequate no. of MRF sheds have been setup by the MCs. Therefore, no gap.	<ul style="list-style-type: none"> MCM= 15 MRF sheds provided. Remaining 7 ULBs as under <table border="1"> <thead> <tr> <th>S No.</th> <th>Name of ULBs</th> <th>No. Of MRF Sheds</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Khara r</td> <td>7</td> </tr> <tr> <td>2.</td> <td>Kurali</td> <td>1</td> </tr> <tr> <td>3.</td> <td>Zirak pur</td> <td>4</td> </tr> <tr> <td>4.</td> <td>Naya Gaon</td> <td>0</td> </tr> <tr> <td>5.</td> <td>Dera bassi</td> <td>3</td> </tr> <tr> <td>6.</td> <td>Lalru</td> <td>3</td> </tr> <tr> <td>7.</td> <td>Banur</td> <td>1</td> </tr> </tbody> </table>	S No.	Name of ULBs	No. Of MRF Sheds	1.	Khara r	7	2.	Kurali	1	3.	Zirak pur	4	4.	Naya Gaon	0	5.	Dera bassi	3	6.	Lalru	3	7.	Banur	1	Urban Local Bodies	Activity Completed
S No.	Name of ULBs	No. Of MRF Sheds																											
1.	Khara r	7																											
2.	Kurali	1																											
3.	Zirak pur	4																											
4.	Naya Gaon	0																											
5.	Dera bassi	3																											
6.	Lalru	3																											
7.	Banur	1																											
4.	Awareness and education programs implementation	Awareness among public for minimizing and recycling PW is being done on regular basis	Awareness among public for minimizing and recycling PW is being done on regular basis	Urban Local Bodies	Regular activity																								
5.	Access to Plastic Waste Disposal Facilities	100 % gap	Mars Envirotech Limited, Village Tofapur, Tehsil DeraBassi has setup a waste to energy plant of capacity 6 MW from RDF @ 150 TPD. PPCB will coordinate with the MCs for scientific disposal of their plastic waste to M/s Mars Envirotech Limited, Village Tofapur, Tehsil DeraBassi.	Urban Local Bodies & PPCB	30.06.2022																								
6.	Plastic Industry Registration. Total no. of plastic unit required registration. Total no. of plastic unit obtained registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	17 No. units	Total no. of plastic unit required registration = 30 Total no. of plastic unit obtained registration = 13	PPCB	Timeline for registration of the remaining units: 31.03.2022																								

<p>7.</p>	<p>Development and setting up of infrastructure for segregation, collection, storage, transportation, Processing, and disposal of Plastic 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>	<p>MC Lalru - MRF has been constructed at dump site and agreement with concerned not executed.</p> <p>MC Kharar – Due to strong resistance of local residents against the construction of MRFs for PWM, two MRF centers on hold at MC Kharar.</p> <p>MC Zirakpur and Banur are yet to start work in this regard</p>	<ul style="list-style-type: none"> • MC Kurali – <ol style="list-style-type: none"> 1. One MRF constructed for Dry waste processing. 2. Plastic waste sold by authorized waste collector on its own level an agreement done with Max speciality films Pvt. Ltd. company for plastic polythene bails • MC Zirakpur – Work Under Process • MC SAS Nagar - MC S.A.S Nagar is ensuring source segregation of solid waste and dry waste disposal is being collected in MRFs centres where it is segregated into glass, cardboard, plastic etc. which is being disposed to Kabadis. • MC Lalru- Agreement to be executed with regard to lifting and processing of plastic waste from the city. • MC Kharar– Plastic waste has been segregated and processed at two levels. <ol style="list-style-type: none"> 1. By informal waste collectors at door steps. 2. By Authorized contractor agency at MRFs and dump site. • MC Derabassi – MoU has been signed with M/s Max Specialty Films Pvt. Ltd. • MC Naya Gaon – 1. No MRF Constructed for Dry waste processing. <ol style="list-style-type: none"> 2. Municipal Council has agreement for Plastic waste or solid waste with the private farm name friends 	<p>All Local bodies & DDPO</p>	<p>MC Zirakpur – 31.12.2021</p> <p>MC Lalru – 30.11.2021</p> <p>MC Kharar – 1 year</p> <p>MC Banur – 31.12.2021</p>
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			<p>associates.</p> <ul style="list-style-type: none"> • MC Banur – Work Under Process. 		
8.	<p>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>	<p>Yet to frame in rural area</p>	<p>MCL and all MCs = already framed Rural Panchayats (941) = yet to prepared</p>	<p>All ULBs and DDPO</p>	<p>31.10.2022</p>
9.	<p>Set up, operationalize and co-ordinate for Plastic Waste management in Ruler area. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)</p>	<p>Arrangement for plastic waste disposal</p>	<p>Awareness regarding it is being done to the Gram Panchyat for segregation, collection and transportation will be done with compartmentalized Rischshaw and stored in the Extra pit to be made with Nadep model</p>	<p>DDPO</p>	<p>Timeline for completion of action plant – 31.10.2023</p> <p>85 village by 30.04.2023</p> <p>85 village by 31.10.2022</p> <p>85 village by 30.04.2023</p> <p>86 village by 31.10.2023</p>
10.	<p>Ban on non-recyclable single use polythene bags. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)</p>	<p>Ban on non-recyclable single use polythene bags</p>	<p>Ban has been already imposed by the State Govt., on sale, purchase, manufacturing and stock of plastic carry bags. The Ministry of Environment, forest And Climate change vide its notification dated 12.08.2021 has banned Single use plastic with effect from 1.07.2022. Further, the guidelines of the Centre and State Govt., regarding banning of single use plastic will be complied with.</p>	<p>ALL Local bodies/PPCB</p>	<p>Activity completed</p>
11.	<p>Segregation, collection, storage, transportation of plastic waste and channelizing of recyclable plastic waste fraction to recycler having valid registration.</p>	<p>MC Lalru - MRF has been constructed at dump site and agreement with concerned not executed.</p>	<ul style="list-style-type: none"> • MC Kurali – Plastic waste sold by authorized waste collector on its own level and agreement done with Max Speciality films Pvt. Ltd. Company for plastic polythene bags. 	<p>All Local bodies & DDPO</p>	<p>MC Lalru - 30.11.2021</p> <p>MC Banur - 30.11.2021</p> <p>MC Zirakpur - 30.11.2021</p>

	(Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)		<ul style="list-style-type: none"> • MC SAS Nagar- Segregation, collection, storage is already being done by MC S.A.S Nagar but presently plastic waste is being disposed off to unauthorized recyclers. MC S.A.S Nagar will ensure disposal of plastic to PPCB registered recyclers. • MC Lalru - Agreement to be executed with regard to lifting and processing of plastic waste from the city. • MC Naya Gaon - M.C Naya gaon has agreement with private farm. • MC Kharar- MC Kharar has awarded work for bioremediation which includes collection, transportation and channelization of plastic waste as per PWM Rules 2016. • MC Banur- Work regarding making an Agreement with the concerned agency for the disposal of plastic waste. • MC Zirakpur- Work under progress. • MC Derabassi- Work under progress 		MC Derabassi – 30.11.2021
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. Camp will be organized of quarterly basis.	Local bodies & DDPO	Regular activity

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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 and 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)	Disposal of plastic waste in village	Instruction are already been given to Gram Panchayat through BDPO's	DDPO	DDPO – 31.08.2022 for preparation of Action plan 31.08.2026 for implementation 85 villages by 31.08.2023. 85 villages by 31.08.2024 85 villages by 31.08.2025 86 villages by 31.08.2026
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. It is being ensured that open burning of plastic waste does not take place. Violators are challans.	All local bodies	Regular activity
16.	To ensure proper plastic waste management, industries may be directed to explore the possibilities of use of such wastes in construction of roads. Further industries may also be directed to collaborate with different research institutes to explore such alternatives. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	Plastic waste use in construction of roads	The Department of PWD already using plastic waste material in the wearing course especially for providing & laying open graded premix carpet on link roads. 20 % length of roads due for repair are considered in which plastic waste material is used. Hence 1.90 KM length in Assembly constituency in MC Kharar has been proposed using waste. Instructions will be given to the industries to explore such activities to department of industries	MCM, and PWD	31.12.2022.

			who through research institutes		
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(iii) C&D Waste Management

a. Current status related to C&D Waste

Details of Data Requirement	Present Status
Total C &D waste generation in MT per day(As per data from Municipal Corporations/Municipalities)	10 MT
Does the District has access to C&D waste recycling facility?	No

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.	<ul style="list-style-type: none"> Out of 8 ULBs, 6 no. ULBs i.e. Lalru, Mohali, Naya Gaon, Banur, Kharar and Derabassi have identified sites for C & D waste deposition. Remaining 2 ULBs are under process. 	Identification of sites is under process.	Urban Bodies Local	31.03.2022
2.	Whether local authority have fixed user fee on C&D waste and Introduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month?	No ULB falling under district SAS Nagar have fixed user fee on C & D	Work yet to be started	Urban Bodies Local	31.03.2022

3.	C&D recycling Facility	All MCs except MC Zirakpur have taken step for C & D waste recycling.	MC Lalru have installed C&D waste Grinder near Mitter Highway Petrol Pump, Lalru. MC Mohali have installed C & D waste crusher near Cremation ground, Sec-57, Mohali. MC Kharar have installed C & D waste crusher on Civil Hospital Road, Kharar opposite municipal park. MC Derabassi and MC Naya Gaon have identified sites for processing facilities. M.C Kurali has installed C&D Grinder on Siswan Road Kurali. MC Banur has given tender on Gem Portal for Grinder Machine.	Urban Local Bodies	30.06.2022
4.	Usage of recycled C&D waste in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads				
5.	ICE on C&D waste management	No Gap	Awareness will be done through media, NGOs & radio.	Urban Local Bodies	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	229
Total no. of non-bedded HCF	873
No. of HCFs authorized by SPCBs/PCCs	590
No of Common Biomedical Waste Treatment and Disposal Facilities(CBWTFs)	1
Capacity of CBWTFs	6000 kg/day
No. of Deep burials for BMW if any	0
Quantity of biomedical waste generated per day	3887 kg/day
Quantity of biomedical waste treated per day	3887 kg/day
Total No. of veterinary Hospitals/ Dispensaries in the District	61

SAS Nagar.	
Total No. of veterinary Hospital connected with CBWTF.	61 (Some Directly and some by modality with other Veterinary hospitals)
Total no. of veterinary Hospital obtained authorization of PPCB.	61
Total No. of veterinary Hospitals adopted segregation of BMW through separate colour coded collections bins.	61
Total no. of veterinary Hospitals complying with BMW Rules, 2016.	61

b. Identification of gaps and Action plan:

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory and Identification of Healthcare Facilities	<ul style="list-style-type: none"> Total HCF identified (Bedded + non bedded)=1102 HCF Authorized by the PPCB = 590 	Regular camps are being organized to pursue the HCFs to obtain the authorization.	PPCB	31.12.2022
2.	Adequacy of facilities to treat biomedical waste	Adequate CBWTF installed in the District. Gap is nil	Not required	PPCB	Activity completed
3.	Tracking of BMW	No Gap. Bar Code system is Implemented by all HCFs and CBWTFs.	Not required	PPCB	Activity completed
4.	Awareness and education of healthcare staff	No Gap. Training has been organized for all stakeholders from time to time.	Not required	PPCB and Health Department	Regular activity
5.	Adequacy of Funds for BMW Management	No gap	Private & Govt. HCFs = Funds available	Civil Surgeon	Activity completed
6.	Compliance to Rules by HCFs and CBWTFs	No gap, to check the compliance regular monitoring is being done.	BMW Rules, 2016 are complied with except provisions of ETPs cum STPs	PPCB, HCFs & CBWTF	Regular activity

7.	District Level Monitoring Committee	Yes, District Level Monitoring Committee has been constituted and meetings are being organized.	Meetings are taken almost on monthly basis District Environment Committee.	District Administration and PPCB	Regular Activity
8.	Wastewater Treatment	<ul style="list-style-type: none"> Total HCFS Required ETP =230 Total HCF install ETPs= 19 	HCFs are being pursued to install the ETP. The meetings are being held with the association members.	PPCB	31.03.2022
9.	Disposal of radioactive materials. With the proliferation of radiotherapy, nuclear medicine, X Rays, CT Scans and other equipment's using radioactive materials. (Directions of Hon'ble NGT in OA no. 710 of 2017 dated 18.01.2021)	<p>Already being Complied.</p> <p>i) Most of the Hospitals now have provided the digital X-ray.</p> <p>ii) The Hospitals which have not provided the digital x-ray machine have made the agreement with the authorized agency for the disposal of its waste.</p>	Already Being Complied.	Health department.	Activity completed.

(v) Hazardous Waste Management

a. Current Status related to Hazardous Waste Management

Details of Data Requirement	Present Status
No of Industries generating HW	209
Quantity of Hazardous Waste In the district(MT/Annum)	40390.84
(i)Quantity of Incinerable HW (MT/Annum)	7262.39
(ii)Quantity of land-fill able HW(MT/Annum)	9229.654
(iii)Quantity of Recyclable/ utilizable HW(MT/Annum)	Recyclable = 21233.56 Utilizable = 2665.232
No of captive/common TSDF	01 (M/s TSDF Nimbua, Derabassi)
Contaminated Sites or probable Contaminated sites	Nil
No of industries provided on site impervious facilities for temporary collection of hazardous waste	209
Monitoring of ground water of common TSDF	Being done once in 6 month.

b. Identification of gaps and action plan:

Sr. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Regulation of industries and facilities generating Hazardous Waste	<ul style="list-style-type: none"> Total industries identified = 209 Authorized by the PPCB = 209. 	Activity completed.	PPCB	Activity completed.
2.	Establishment of collection centres	The industries generating hazardous waste have provided dedicated storage rooms for the storage of hazardous waste within their premises.	Activity completed.	PPCB	Activity completed.
3.	Training of workers involved in handling /recycling/disposal of HW	Industries generating HW already identified	The workers are being trained time to time.	PPCB	Regular activity
4.	Availability/Linkage with common TSDF or disposal facility	The industries generating HW have access to common TSDF/ Recyclers/ Re-processor/ Utilizer in the State or Other State.	The industries generating HW have access to common TSDF/ Recyclers/ Re-processor/ Utilizer in the State or Other State.	PPCB	Activity completed
5.	Contaminated Sites	No Contaminated Site	No Contaminated Site	Local Bodies, DDPO and PPCB	No Contaminated Site

(vi) E-Waste Management**a. Current Status related to E-Waste Management**

Details of Data Requirement	Present Status
Generation of E-Waste in MT/year	71.25

Collection centers established by ULBs in the District	0
Collection centers established by Producers or their PROs	12
No authorized E-Waste recyclers/Dismantler	2
No. authorized E-Waste Manufacturer	1

b. Identification of gaps and action plan:

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory / Generation of E-Waste / Bulk-waste generators	1060 bulk consumers identified out of which 112 have been inventories	Completion of inventory	PPCB	30.06.2022
2	E-Waste collection points	No. of Collection centers = 11.	Collection centers already established.	PPCB	Activity Completed.
3	Linkage among Stakeholders to channelize E-Waste	Linkage among stakeholders is being done.	Work under progress	PPCB, ULBs & GMDIC	31.10.2022
4	Regulation of Illegal E-Waste recycling /dismantling	Regular activity	02 no. E-Waste recycler/ dismantler facilities are operating in the District Mohali. Detail of illegal e-waste recycling is being prepared.	PPCB	Regular activity
5	Integration of informal sector	Being prepared.	Being prepared.	District Administration & PPCB	6 month
6	Awareness and Education	Awareness Plans are being prepared	Special workshops and awareness campaigns through Producers/PROs are being prepared	District Administration & PPCB	6 month

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7.	Identification of Producers who have not obtained, EPR Authorisation (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	This is a continuous activity and will be followed.	This is a continuous activity and will be followed.	SPCBs/ PCCs/Custom department	Regular activity
8.	Verification of quantity of e-waste collected by producers (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	This is a continuous Activity. All the EPR Authorised Producers will be verified per year	This is a continuous Activity. All the EPR Authorised Producers will be verified per year.	PPCB	Regular activity
9.	Verification of systems provided by producers for collection and provided by producers channelization of e-waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	This is a continuous Activity. All the EPR Authorized Producers will be verified per year	All the EPR Authorized Producers will be verified per year.	PPCB	Regular activity
10.	Verification of facilities of dismantlers and recyclers for their infrastructure and records. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	This is a continuous activity. All the dismantlers/recyclers will be verified per year.	All the dismantlers/recyclers will be verified per year.	PPCB	Regular activity
11.	Checking of informal trading, dismantling, and recycling of waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Regular activity	SPCBs/PCCs in coordination with District Administration has to carry out quarterly drive for checking of this activity	PPCB/District Administration	Regular activity
12.	Facilitate collection and disposal of e-waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Regular activity	State Government to formulate mechanism for collection and for incentivizing setting up of recycling facilities.	District administration /PPCB	Regular Activity.
13.	Governance frame work for monitoring compliance. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Regular Monitoring will be carried out to check the compliance.	Monitoring to be ensured at city/district and state levels for which nodal officers (state environmental secretary, district collector, CMD/Commissioners) to be designated.	District Administration, PPCB & Local bodies.	Regular Activity

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14.	Capacity building at district level. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No gap	Special workshops to educate functionaries in government /NGOs be run over one year.	District Administration, PPCB & Local bodies.	Regular activity
15.	IEC plan be firmed up and executed. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No Gap	State Government to frame up IEC plan for educating public at large about the system of collection, incentive structure and facilities for recycling	District Administration, PPCB & Local bodies	Regular activity
16.	Strengthen system of enforcement. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No gap	Quarterly review of violations and enforcement actions at city/district/state level and quarterly reports to be filed with CPCB.	District administration/PPCB/MCL	Regular activity
17.	Allocation of proper space to the existing and upcoming industrial units for e-waste dismantling and recycling. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No gap	There are 2 no. recycling and dismantling facilities operating in the district. Further, State Government has already planned the focal points for industrial units. Proper space will be allocated to the existing and upcoming industrial unit for E waste dismantling and recycling facility.	PSIEC	Activity completed
18.	Recognition and registration of workers involved in dismantling and recycling, undertake industrial skill development activities for the workers involved in dismantling and recycling. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	500 workers identified out of which 427 workers have been registered hence, gap of 73 workers.	427 workers have been registered. Remaining are being done.	Labour Department	31.12.2021

19.	Annual monitoring to ensure health and safety of workers involved in such activities. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No Gap	Every Six month health checkups/ campus will be organized by the Assistant Director of Factories.	Director of Factories	Regular Activity
20.	Separate waste deposition centers for domestic E-waste which helps in easy segregation of E-waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No Gap	One E-Waste deposition center already established at each ULB.	All Local Bodies	Activity completed

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:	0 0
Number of manual monitoring Station operated by SPCBs	02
Name of towns/cities which are failing to comply with national ambient air quality stations	1
No of air pollution industries	445
Status of Air Consent	<ul style="list-style-type: none"> Regular activity Total no. of industries requiring consent to operate under Air Act, 1981 Red = 374 Orange =731 Green=292 Total no. of units having valid consent as on 31.08.2021 Red =257 Orange =531 Green=175 Timeline for grant of consents to the balance units not having valid consent. Red =31.03.2022 Orange = 30.06.2022 Green= 30.09.2022
Prominent air polluting sources	Industry, Crusher, Unpaved Roads, Burning of Waste Stubble & Vehicular pollution.

b. Identification of gaps and action plan:

S. No.	Action points	Gap & Indicative Action Plan	Responsible agency	Timeline for completion of action plan									
1.	Identification of prominent air polluting sources?	Industry, Crusher, Unpaved Roads, Burning of Waste Stubble & Vehicular pollution are major source of air pollution identified in the district.	MCM, PWD, Agriculture Department & PPCB	Activity completed									
2.	Ambient Air quality data?	2 no. manual monitoring <table border="1"> <thead> <tr> <th>S. no.</th> <th>Year</th> <th>PM₁₀ (µg/m³)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2019</td> <td>95</td> </tr> <tr> <td>2.</td> <td>2020</td> <td>102</td> </tr> </tbody> </table>	S. no.	Year	PM ₁₀ (µg/m ³)	1.	2019	95	2.	2020	102	PPCB	Activity completed
S. no.	Year	PM ₁₀ (µg/m ³)											
1.	2019	95											
2.	2020	102											
3.	Setting up of Continuous Ambient Air Quality Monitoring Station	1 CAAQMS is required to be installed in Derabassi.	PPCB	31.12.2022									
4.	District Level Action Plan for Air Pollution	There are three tehsil in district SAS Nagar out of which 1 tehsil Derabassi has been declared non attainment city. Accordingly, Air Action plan of Non attainment City Derabassi have already been prepared and submitted to CPCB after notification by State Government.	PPCB	Activity completed.									
5.	Hotspots of air pollution in District	Major Hotspots have been identified and given in the micro air action plan. The major hotspots are industrial areas, Derabassi, Lalru, Barwala Road, VIP Road Zirakpur, Kharar Bus Stand etc.,	PPCB	Activity completed.									
6.	Awareness on Air Quality	Awareness in this regard is being done on regular basis. The data is also given in public domain for awareness to the public at official website of the PPCB. The web link of the same is https://ppcb.punjab.gov.in/en/air-quality	PPCB	Regular activity									
7.	Industries to be converted from coal to CNG	No industries following in tehsil Mohali is using Coal as fuel. Industries located in Tehsil Derabassi are using Coal/petcoke, however, there is no proposal of CNG pipeline yet.	DFSC/PPCB	No proposal yet									
8.	Conversion of Natural Draft Brick Kilns to Induced Draft Brick Kilns	<ul style="list-style-type: none"> Total BKO required to converted to ZIG ZAG as per CPA =88 Converted to ZIG Zag 	PPCB/DFSC	Activity completed									

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		Technology=86, <ul style="list-style-type: none"> • Yet not converted = 02 (MOU signed with Technology provider & construction started) 		
9.	Maintain pothole free roads / timely patchwork on roads	Work under progress	ULBs, PWD, GMADA	Regular activity
10.	Procurement of Mechanical sweeping machines	Mechanical sweeping with machines in progress by MC Mohali and MC Kharar. Rest of the ULBs are under process	ULBs	30.06.2022
11.	Plantation of trees along highways, drains, Nallahs in colonies and canals etc.,	Plantation has been done already in various urban estates and the further plantation will be done accordingly when new land will be acquired.	ULBs, DDLG, GMADA.	Regular activity
12.	Greening of parks, open areas, community places, schools and housing societies	MC Kharar has developed Mianwaki Park in Kharar city plantation in others area in progress. No progress submitted by other ULBs.	ULBs, DDLG, GMADA, and Forest department	Regular activity
13.	Kaccha/Brick Paved Roads to be made Pucca roads	Work in progress in Kharar city.	ULB & PWD	Regular activity
14.	Existing roads requiring recarpeting	Recarpeting being done in Kharar City.	ULB, DDLG, PWD, GMADA, PSIEC	Regular activity
15.	Public awareness campaign for control of vehicular emissions	10 no. awareness camps organized	Traffic Police, Transport	Regular activity
16.	Extensive drive against polluting vehicles	The extensive drive against polluting vehicles already initiated by the Police department.	Traffic Police	Regular activity
17.	Prevention parking of vehicles in non-designated areas by enforcement actions	The extensive drive already initiated by the Police department to prevent parking of vehicles in non-designated areas and issuing challans to the violators.	Traffic Police	Regular activity
18.	Phasing out commercial diesel vehicles more than 15 years old	As per the prevailing policy, any vehicle can ply on road if it is considered 'Road Worthy' by the Board of Inspection of the department.	Transport	Regular activity
19.	Promotion of E-Vehicles	Policy being framed by the Government.	Transport	Regular activity

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20.	Infrastructure development for additional of CNG based autos/taxis	Total 10 CNG station has been commissioned out of total 12 station and 2 are under process	DFSC	Regular activity
21.	Control of open burning of bio-mass.	There is no burning of bio mass, biodegradable material is collected from park and put in the pits built at parks.	ULBs and DDLG and GMADA	Regular activity
22.	Dissemination of Air Quality Index by installing additional CAAQMS	Presently there is no CAAQMS installed in the district. Work is under progress	PPCB	31.12.2022
23.	Dissemination of Air Quality Index by installing additional display boards in the city	Presently there is no CAAQMS installed in the district. As soon as the work of installation of CAAQMS I completed display board will be provided.	PPCB	30.06.2023
24.	Quality Management Division(AQMD) at PPCB (HQ)Establishment of an Air	Work is under progress.	PPCB	31.12.2021
25.	Establishment helpline in each city as well as SPCB HQ	AQMD has been established at Head Office level Helpline number is 1800 120 3667.	PPCB, Lab	Activity Completed
26.	Scope for public participation on remedial measures like plantations. (Directions of Hon'ble NGT in OA no. 360/2018 dated 05.07.2021)	Incompliance of directions of NGT Forest Division SAS Nagar has prepared a plantation project according to which work has been accomplished on the field.	Department of forest	Regular Activity
27.	Carrying capacity and source apportionment study of non-attainment Cites.	Source apportionment study is being carried out by IIT Delhi.	PPCB	Source Apportionment Study = 31.12.2021 Carrying Capacity = 30.04.2023
28.	For development of plantation along the highways.	The area alongside highways where plantation can be done is declared forest area.During suitable season for plantation PWD will coordinate with department of forest for plantation.	PWD and Forest Department	30.06.2022
29.	Steps to be taken for management of agriculture waste/residue	As per PRSC data about 30,000 hac. Paddy area is being cultivated in the district and 195000 MT. Paddy straw is expected from this crop. 131833 MT Paddy straw is being consumed/ managed and 63163 MT straw is the real gap. Out of 195000 MT of straw 63167 MT will have to be	Agriculture department	Seasonal Activity/ Regular Activity

		managed with the help of 176 machines being supplied this year, Gaushala, Dairies and Gujjar/Farmers, mill etc.		
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4.0 Water Quality Management

4.1 Water Quality Monitoring

a. Current Status related to Water Quality Management

Details of Data Requirement	Present Status
Rivers	River Ghaggar, 166.16 Km
Length of Coastline(if any)	30 Km
Nalas/Drains/Creeks meeting Rivers	13
Lakes/Ponds	0
Total Quantity of sewage from towns and cities in District	122.8 MLD
Quantity of industrial wastewater	35.739 MLD
Percentage of untreated sewage	32%
Details of bore wells and number of permissions given for extraction of groundwater	3212
Ground water polluted areas if any	Dump site of all the MCs in the jurisdiction of this office.
Polluted river stretches if any	River Ghaggar, 166.16 km

b. Identification of gaps and action plan for water quality monitoring:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory of water bodies	The monitoring of rivers, drains is already being carried out and data is being maintained.	PPCB	Regular activity
2.	Quality of water bodies in the district	The monitoring of rivers, drains is already being carried out and data is being maintained and also discussed in monthly meeting of District Environment Committee. The information of water quality will be also uploaded on the official websites of SPCB & District Administration.	District Administration and PPCB	Regular activity
3.	Hotspots of water contamination	Being identified.	PPCB	Regular activity

4.	Protection of river/lake waterfront	Awareness is being carried out in the public to stop the dumping of solid waste in river/Nallah. Challans are also issued to the violators	Urban Local bodies	Regular activity
5.	Inventory of sources of water pollution	The sources are already identified and detail of the same is given in Ghaggar Action Plan. The Web link of the same is https://ppcb.punjab.gov.in/en/action-plans	Urban Local Bodies & DDPO	Activity completed
6.	Oil spill disaster management(for coastal districts)	NA	NA	NA
7.	Protection of floodplains	The concerned department regularly observes and protects the flood plains by constructing river training works.	Drainage Department	Regular Activity
8.	Rejuvenation of groundwater	As per Master Plan to Artificial Recharge to Ground Water in India-2020, 1896 Recharge shaft, 11050 farm Pond and 20541 Rooftop Rain water harvesting structures have been suggested for Ludhiana district. The link for the Master Plan is http://cgwb.gov.in/Master%20Plan%20to%20GW%20Recharge%202020.pdf	PWRDA	Regular Activity
9.	Complaints redressal system	Mobile App/Online Complaints redressal system already developed.	PPCB	Activity Completed

4.2 Domestic Sewage

a. Identification of gaps and action plan for treatment of domestic sewage

Details of Data Requirement	Present Status
No of Class-II towns and above	4
No of Class-I towns and above	4
No of Towns STPs installed	9 (7 + 2 Aero City)
No of Towns needing STPs	8
No of ULBs having underground sewerage network	7
No of towns not having sewerage network	1
Total Quantity of Sewage generated in District From Class II cities and above	23 MLD
Quantity of treated sewage flowing into Rivers(directly or indirectly)	75.9 MLD

Quantity of untreated or partially treated sewage(directly or indirectly)	39.5MLD
Quantity of sewage flowing into lakes	0
Total available Treatment Capacity	88.3 MLD

b. Identification of gaps and action plan for treatment of domestic sewage:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Sewage Treatment Plants (STPs)	<p>Existing capacity of STPs= 88.3 MLD Additional capacity required = 39.5 MLD.</p> <p>Kharar - The tender for the installation of STP of capacity 10 MLD adjoining the existing STP in Kharar is in process.</p> <p>Naya Gaon - DPR for establishment of STP at Naya Gaon has been finalized. The construction work could not start as the matter of land acquisition is pending in the Court.</p> <p>Lalru - DPR for establishment of STP at Lalru has been finalized.</p> <p>Zirakpur - Tendering of STP Zirakpur of 17 MLD under process.</p> <p>Derabassi - DNIT of STP Derabassi under process</p> <p>GMADA - Work for construction of STP at Aerocity of capacity 10 MLD is under progress. GMADA is also upgrading its 10 MGD STP located at Sector -83, Mohali to 15 MGD capacity.</p>	MC Kharar, Lalru, Zirakpur, Derabassi, Naya Gaon, GMADA and PWSSB	<p>MC, Kharar- 31.12.2022</p> <p>MC, Derabassi- 31.12.2023</p> <p>MC, Zirakpur- 30.09.2022</p> <p>MC, Lalru- 31.03.2023</p> <p>GMADA - 30.06.2023 (for STP at sector-83), 31.03.2022 (for STP at Aerocity)</p>
2.	Underground sewerage network	Sewerage network has already been laid out in all towns and cities except in Naya Gaon due to some land dispute sub judiced in High Court. As and when the dispute is sorted the work will start.	PWSSB	MC Naya Gaon = 31.12.2022

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3.	Setting up of real time water quality monitoring system to monitor the quality of water	The RTWQMS have been installed and working.	PPCB	Installed at Bhankarpur bridge, Village Bhankarpur, DeraBassi
4.	Operation and Maintenance of STPs (i)Arranging funds for operation and maintenance of STPs to ensuring regular operation and maintenance of STPs in a professional manner	Completed, no gap	ULBs & PWSSB	ULBs & PWSSB has informed that Funds have been tied up.
	(ii)Providing proper in-house laboratory facilities at each STP for maintaining record of characteristics of analysis of untreated as well as treated waste water	Completed	ULBs, PWSSB	<ul style="list-style-type: none"> • STP Mohali (45 MLD): Lab Provided, OCEMS provided. • STP Aerocity (0.5 MLD): No Lab Provided, No OCEMS provided • STP Derabassi (4 MLD): Lab Provided, OCEMS provided • STP Banur (4 MLD): Lab Provided, No OCEMS provided • STP Lalru (1.5 MLD): Lab Provided, OCEMS provided • STP Zirakpur (17.3 MLD): Lab Provided, No OCEMS provided • STP Kharar (11 MLD): Lab Provided, No OCEMS provided • STP Kurali (5 MLD): Lab Provided, OCEMS provided <p>The GMADA has informed that the capacities of STP's</p>

				are small so there is no provision of in-house laboratory and monthly testing is done from NABL approved lab.
5.	Provision of necessary treatment facilities in village ponds so that no untreated or polluted water enters river directly or indirectly through various drains or creeks. (i)Finalization of appropriate technology	A. No. of village ponds for which work has been completed:- 2 B. No. of villages where work is under progress= 1 C. No. of villages where work is yet to be started = 12 D. Desilting and Dewatering of ponds = 341	DDPO	A. Total no. of villages where appropriate technology is required = 15 B. No. of village ponds for which appropriate technology finalized: 3 C. Time target for finalizing the appropriate technology for remaining 7 village ponds: 31.10.2022
	(ii)Arrangement of Funds for treatment technology in various villages identified in the Action Plan	A. No. of village ponds for which funds treatment technology arranged: 3 B. The work for arrangements of funds for the remaining village is under process.	DDPO	A. No. of village ponds for which funds treatment technology arranged:-3 B. Number of villages where funds are yet to be arranged=12 C. Time target for the remaining village ponds: 31.10.2022
	(iii)Reuse of water for agriculture purpose in villages.	A. No. of village ponds for which irrigation scheme has been implemented: 3 B. Progress for the remaining villages: work is under progress under	DDPO, Soil conservation department.	A. Number of village ponds identified: 3 B. No. of village ponds for

		the MGNREGA Scheme.		which irrigation scheme has been implemented: 3 C. Time target for the remaining villages: 31.10.2022
	(iv) Proper operation and maintenance of treatment facilities installed in village ponds	A. No. of village ponds for which operation and maintenance of treatment facilities installed: 2 B. Progress for the remaining villages for remaining villages work is under progress under the MGNREGA Scheme	DDPO	A. Target Number of villages identified for installation treatment facility : 15 B. No. of village ponds for which operation and maintenance of treatment facilities installed: 2 C. Time target for the remaining villages: 31.10.2022
6.	(i) Checking of health indices of the in-habitants & maintaining database. (ii) Holding awareness camps in the catchment area of River Sutlej to make the public aware regarding water borne diseases	Camps are organized on monthly basis	The Department of Health and Family Welfare	Regular activity
7.	(i) Measurement of flow at different locations of River Sutlej & drains.	The flow is being monitored on monthly basis by the drainage department.	Department of water resources,	Regular activity

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	(ii) To stop unauthorized discharge in the drains.	The regular survey is being done by the concerned departments to stop unauthorized discharge in the drains.	Department of water resources, MCM, ULBs and DDPO.	Time Target: <ul style="list-style-type: none"> • Drainage Department (Outside MC limit)= 31.12.2021 • MCM (Within MC limit) = 31.08.2022
8.	Setting up of additional water bodies/water harvesting structures	A. Existing Ponds(Total) = 401 B. No. of Ponds whose Capacity has been enhanced = 81 C. New ponds =nil Source of Funds above activities: Gram Panchayat Fund, Finance Commission, MGNrega.	DDPO	31.10.2023
9.	Guidelines for control of pollution and enforcement of Environmental Norms in marriage halls, banquet halls, party venues etc. along with consent management system. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	Already being followed as per guidelines framed by CPCB	PPCB	31.12.2022
10.	Installation of ETP in all big units (marriage halls, banquet halls, party venues etc) which are not connected with the sewer lines. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	Already being followed as per guidelines framed by CPCB	PPCB	31.12.2022
11.	All the units having kitchen should have proper ducting arrangement. The units using DG sets must have the proper stack height. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	Already being followed as per guidelines framed by CPCB	PPCB	31.12.2022
12.	The local authorities/corporations should carry out inventory of the dairy farms and gaushalas. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	<ul style="list-style-type: none"> • MC Mohali - MC S.A.S Nagar have 150 dairy farms and 1 Gaushala. • MC Lalru - District level Gaushalla being maintained by NGO at Village Magra, Lalru and inventory is maintained as well. • MC Naya Gaon - 50% survey of Dairy Farms for registration has been done. Rest of 50% work is 	All Local Bodies	MC Naya Gaon – 30.10.2021 MC Kurali – 31.10.2021 MC Derabassi – 31.12.2021

		<p>ongoing.</p> <ul style="list-style-type: none"> • MC Kharar - Within MC Kharar boundary, no dairy farm and gaushalasis are registered • MC Kurali - 50% survey of Dairy Farms for registration has been done. Rest of 50% work is ongoing. • MC Zirakpur - District level Gaushalla being maintained by NGO and inventory is maintained as well. • MC Banur - District level Gaushalla being maintained by NGO and inventory is maintained as well. • MC Derabassi - Inventorization will be done. 		
13.	The local bodies/municipal corporations shall publish a public notice in newspapers and on their website for registration of dairy farms and gaushalasis per municipal law. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	<ul style="list-style-type: none"> • MC Mohali - MC S.A.S Nagar will get this published very soon. • MC Lalru - Apart from District level Gaushalla one private gaushalla run by local people. The same will be registered with MC as per MC Laws. • MC Naya Gaon - 50% survey of Dairy Farms for registration has been done. Rest of 50% work is ongoing. • MC Kharar - Within MC Kharar boundary, no dairy farm and gaushalasis are registered • MC Kurali - 50% survey of Dairy Farms for registration has been done. Rest of 50% work is ongoing. 	All Local Bodies	<p>MC Mohali – 31.12.2021</p> <p>MC Naya Gaon – 30.10.2021</p> <p>MC Kurali – 31.10.2021</p> <p>MC Zirakpur – 31.03.2022</p> <p>MC Derabassi – 31.12.2021</p> <p>MC Lalru -31.12.2021</p> <p>MC Banur- 31.12.2021</p> <p>MC Zirakpur- 31.12.2021</p>

		<ul style="list-style-type: none"> • MC Zirakpur – MC Zirakpur will get this published very soon • MC Banur – MC Banur will get this published very soon • MC Derabassi – MC Derabassi will get this published very soon 		
14.	The District Collectors of all the Districts are directed to constitute monitoring committees to monitor the Extraction of Ground Water by the individuals for commercial purposes. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	Such Committees will be constituted	District Administration	31.03.2022
15.	There must be no general permission for withdrawal of ground water, particularly to any commercial entity, without environment impact assessment of such activity on individual Assessment units in cumulative terms covering carrying capacity aspects by an expert committee. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	<ul style="list-style-type: none"> • MC Mohali - MC S.A.S Nagar is not giving any permission for withdrawal of ground water. • MC Lalru - complying with these instructions. • MC Naya Gaon - No permission is given by MC. • MC Kharar – No permission is given by MC. • MC Kurali – There is no application/complaint received hence no permission is given by ULB. • MC Zirakpur – No permission is given by MC. • MC Banur – No permission is given by MC. • MC Derabassi- No permission is given by MC. 	All local bodies & DDPO	Activity completed.
16.	All Overexploited, Critical & Sensitive (OCS) assessment units must undergo water mapping. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	Water mapping of all the OCS assessment units has been done as per the guidelines of GOI as per GEC-2015 Methodology by taking Block as a Unit of Assessment. The data of years 2015-19 has been taken for assessing the same recently. As per this study out of total 150 Blocks taken for study, 117 Blocks (78%) are "Over-Exploited", 6 Blocks (4%) are "Critical", 10 Blocks (7%) are "Semi-Critical"	Water Resources (Ground water cum NHP wing) and PWRDA	Activity completed.

		and 17 Blocks (11%) are in "Safe" category. The water level trends have been computed for last 10 years from 2009-2019 data		
17.	Water Management Plans need to be prepared for all OCS assessment units in the country based on the mapping data, starting with Overexploited blocks. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	Punjab Government has engaged M/s Mekorot, National Water Company of Israel to formulate the Water Conservation and Management Master Plan for the State of Punjab and their final recommendations is likely to be submitted by December 2021.	Water Resources (Ground water cum NHP wing) and PWRDA	31.03.2022
18.	The Water Management Plans, data on water availability or scarcity and policy of CGWA must be uploaded on its website for transparency and public involvement. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	Noted for compliance and will be assured.	PWRDA	31.03.2022
19.	The District Magistrates have been directed to take up one pond per village for its rejuvenation, this year. (Directions of Hon'ble NGT in OA no. 325/2015 dated 18.11.2020)	1. Till date 80 ponds have been rejuvenated/ restored. 2. Rest will be restored upto 31.10.2022	DDPO	31.10.2022
20.	Active efforts be made in close coordination with technical bodies to tap excess runoff of rivers/canals during rainfall season to recharge old water bodies and retain water in new ponds to be constructed specifically for the purpose (Directions of Hon'ble NGT in OA no. 325/2015 dated 18.11.2020)	The excess runoff water finally reaches rivers/choe/drain, whether it comes through nallah or drain. The direction for control of flow water is given by head quarter in case certain pond level is required to be maintained for regulation of canals. Efforts will be also done to find out the alternate way to tap the excess rain fall in ponds.	Drainage	31.10.2026
21.	Development of Bio Diversity Parks in the vicinity of rivers lead to continuous recharge of aquifers. (Directions of Hon'ble NGT in OA no. 325/2015 dated 18.11.2020)	<ul style="list-style-type: none"> • Forest Department - Incompliance of directions of NGT Forest Division SAS Nagar has prepared a plantation project according to which work has been accomplished on the field • MC Mohali - No river crosses with in MC, S.A.S Nagar limits 	ULBs and Forest Department	

		<ul style="list-style-type: none"> • MC Lalru - No rivers passes through MC Limit. • MC Naya Gaon - No park available in M.c limit for development of biodiversity. • MC Kharar - No rivers passes through MC Limit. • MC Kurali – No plan for developing Bio Diversity Park. • MC Zirakpur - No rivers passes through MC Limit. • MC Derabassi - No rivers passes through MC Limit. • MC Banur - No rivers passes through MC Limit 		
22.	Maintenance of E Flow of the rivers. (Directions of Hon'ble NGT in OA no. 325/2015 dated 18.11.2020)	Already Being Maintained	Drainage Department	Activity Completed
23.	Land owning agencies must ensure that every water body has unique ID for its identification. There should be retagging of the water bodies to prevent encroachment. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	Plan yet to be prepared.	Drainage Department	31.12.2022
24.	Awareness among public to set up Rainwater Harvesting System and about its utility should be enhanced. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	Public announcements done regarding rain water harvesting time to time by all ULBs.	Local Bodies	Regular Activity
25.	Installation of STP will be mandatory for all residential apartments/group housing societies where groundwater requirement is more than 20 m3/day for getting NOCs. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	<p>GMADA – Duly followed.</p> <p>ULBs - Duly followed.</p>	GMADA and ULBs	Activity completed.

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26.	Comprehensive plan to install flow meters at various locations to carry out daily real time monitoring of the city's water supply network. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	MC Mohali - Flow meters have already been installed on all tubewells of MC S.A.S Nagar.	MCM	Activity completed.
27.	Control of illegal extraction of groundwater. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	Efforts are being made to control illegal extraction of ground water. No authorization is given to public for extracting ground water illegally. Inspection regarding same is being done time to time by ULBs	All Local Bodies	Regular Activity
28.	Review of District Environmental Plan activities at different levels of District Heads and District Magistrate. (Directions of Hon'ble NGT in OA no. 360/2018 dated 05.07.2021)	The Activities of District Environmental Plan will be reviewed on monthly basis by the District Heads and at the level of District Magistrate SAS Nagar.	District Heads of concerned departments and District Administration.	Regular Activity
29.	Appointment of Nodal officer with contact number	All the departments have appointment the Nodal officer and list is attached as Annexure-X	All concerned departments	Activity Completed
30.	Preparation of operational manual of STPs for the effective and efficient operation of the STPs of the state.	It is under preparation.	PPCB	31.10.2021
31.	Enhancement of capacity of existing ponds/ water bodies and creating of new water harvesting structures.	A. Existing Ponds(Total) = 279 B. No. of Ponds whose Capacity has been enhanced = 42 C. New ponds = Nil Source of Funds above activities: Gram Panchayat Fund, Finance Commission, MNrega.	DDPO	31.10.2022
32.	Usage of treated sewage for sprinkling purposes for sweeping of roads to control dust pollution.	<ul style="list-style-type: none"> • GMADA – Treated water supply is already being used for sprinkling purposes. However, no action plan submitted by authority yet. • MC Mohali–Scheme under consideration. 	MCM and GMADA.	Regular Activity

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33.	Mapping of the rivers and flood plain zones in the catchment area of rivers of the State.	Scheme yet to be prepared.	Drainage Department	31.12.2022
34.	Utilization of STPs sludge	<ul style="list-style-type: none"> • MC Kurali – Used for Horticulture and adjoining farmers as manure in the fields. • GMADA–Sludge generated after treatment of sewage is supplied to farmers for agricultural purposes and also used for Horticulture works of GMADA. • MC Lalru - Plan is being prepared with the coordination of Soil Conservation department • MC Naya Gaon - No STP available so no Sludge generated. • MC Kharar - Used for Horticulture and adjoining farmers as manure in the fields. • MC Derabassi - Used for Horticulture and adjoining farmers as manure in the fields. • MC Banur - Used for Horticulture and adjoining farmers as manure in the fields. 	ULBs and GMADA	MC Lalru – 31.12.2021
35.	Framing policy for the management of highly contaminated Feecal sludge generated from the rural areas.	Progress achieved: State level policy matter and time target for framing of policy will be informed after taking up matter at higher level.	DDPO	Policy will be framed by 30.04.2022. Implementation by – 30.04.2025
36.	The projects being developed for supply of canal water to the inhabitants of the cities/villages may be completed in a time bound manner.	GMADA -90% work for installation of water treatment plant of 20 MGD capacity for treatment of water to be received from Kajauli water works has been completed and 90 % work for laying of lines for	GMADA	31.12.2021

		supply of treated water has been completed. The treated water will be supplied to Mohali City.		
37.	Reuse of treated effluent through existing STPs (OA no. 496/2016 dated 22.01.2021)	<ul style="list-style-type: none"> ● STP Banur (4 MLD): Irrigation Scheme Functional ● STP Mohali (45 MLD): Situated in Sector 66 surrounded by residential area. Agriculture land is around 15 km away. Not feasible for irrigation project. ● STP Aerocity (0.5 MLD): Presently, the treated water is used through mobile tankers onto parks. The line for reuse of treated effluent have already been laid but are not functional. Once the new STP of 10 MLD is commissioned the line for reuse of effluent will be made operational. ● STP Derabassi (4 MLD): surrounded by residential area. No agriculture land nearby. Hence, not feasible for irrigation project. ● STP Lalru (1.5 MLD): MC has tied up with Soil Conservation Dept. and plan for Reuse of treated effluent department will be made by 31.03.2022. ● STP Zirakpur 17.3 MLD): surrounded by residential area. No agriculture land nearby. Hence, not feasible for irrigation project. ● STP Kharar (11 MLD): Work for laying 11 KM linefor distribution of treated wastewater has been started. ● STP Kurali (5 MLD): Irrigation Scheme Functional. 	ULBs	<p>STP Kharar – 30.09.2022</p> <p>STP Derabassi – 31.03.2022</p> <p>STP Lalru – 31.03.2022</p>

38.	Reuse of treated effluent through proposed STPs (New STPs) (OA no. 496/2016 dated 22.01.2021)	<ul style="list-style-type: none"> ● STP Zirakpur (17 MLD) = Project is surrounded by residential area with no agricultural command area available nearby, hence not feasible for irrigation project. ● STP Kharar (10 MLD) = No proposal as work of installation of STP yet not started. ● STP Lalru (1.5 MLD) = proposal for irrigation project has been prepared with approximate project cost of Rs. 76 lakhs. ● STP Aerocity (10 MLD) = 5 MLD capacity tertiary treatment plant is being installed for non potable uses. ● STP Mohali (15 MGD) - 5 MLD capacity tertiary treatment plant is being installed for non potable uses. ● STP Naya Gaon (11 MLD) = No proposal as work of installation of STP yet not started. ● STP DeraBassi (2 MLD) =Project is surrounded by residential area with no agricultural command area available nearby, hence not feasible for irrigation project. <p>Note – The department of soil conservation has not submitted any proposal/ action plan for utilization of treated effluent for irrigation purpose of the above said STPs.</p>	Department of Soil Conservation and GMADA	<p>STP Lalru - 30.06.2022</p> <p>STP Aerocity – 31.03.2022</p> <p>STP Mohali – 30.06.2023</p>
39.	Installation, operation & maintenance of online continuous effluent monitoring system with flow meter as well as CCTV cameras for the existing STPs as well as new STPs to be installed.	<ul style="list-style-type: none"> ● STP Mohali (45 MLD): OCEMS and CCTV provided ● STP Aerocity (0.5 MLD): No OCEMS and CCTV provided ● STP Derabassi (4 MLD): OCEMS and CCTV provided ● STP Banur (4 MLD): No OCEMS provided and CCTV provided ● STP Lalru (1.5 MLD): OCEMS and CCTV 	Urban Local Bodies, GMADA and PWSSB	<p>OCEMS time line for following STPs</p> <p>STP Banur – 31.03.2022</p> <p>STP Zirakpur – 31.03.2022</p> <p>STP Kharar – 31.03.2022</p> <p>STP Aero City- 31.03.2022</p>

		<p>provided</p> <ul style="list-style-type: none"> • STP Zirakpur 17.3 MLD): No OCEMS provided and CCTV provided • STP Kharar (11 MLD): No OCEMS provided, CCTV provided • STP Kurali (5 MLD): OCEMS and CCTV provided. <p>The GMADA has informed that the capacities of STP's are small so there is no provision of in-house laboratory and monthly testing is done from NABL approved lab. Work for construction of 10MLD STP at aero city is under process.</p>		
40.	<p>Activity w.r.t. In-situ remediation technology to be provided in the drains carrying untreated sewage.</p>	<ul style="list-style-type: none"> • Kharar - The tender for the installation of STP of capacity 10 MLD adjoining the existing STP in Kharar is in process. • Naya Gaon - DPR for establishment of STP at Naya Gaon has been finalized. The construction work could not start as the matter of land acquisition is pending in the Court. • Lalru - DPR for establishment of STP at Lalru has been finalized. The construction work could not start as the matter of land acquisition is pending in the Court. • Zirakpur - Tendering of STP Zirakpur under process • DDPO – The Ponds are being constructed in the villages to stop the untreated sewage in the drain. Total 170 villages have been identified out of which work has been completed in 4 villages, work is under process in 2 villages and work yet to be start in 164 villages. 	<p>ULBs and DDPO</p>	<p>DDPO –</p> <ol style="list-style-type: none"> 1. Funds have been received in 2 more villages and work in these villages will be completed by 30.11.2022. 2. Funds in the remaining 164 villages are yet to be allotted. Work will be completed within one year after the release of the funds.

5.0 Industrial wastewater management

a. Current Status related to Industrial Wastewater Management

Number of Red, Orange, Green and White industries in the District	Red Category unit =252, Orange Category unit = 209, Green Category unit = 29
No of Industries discharging wastewater	239
Status of Water Consent	<ul style="list-style-type: none"> Regular activity Total no. of industries requiring consent to operate under Water Act, 1974 Red = 374 Orange =731 Green=292 Total no. of units having valid consent as on 31.08.2021 Red = 266 Orange =532 Green=177 Timeline for grant of consents to the balance units not having valid consent. Red = 31.03.2022 Orange = 30.06.2022 Green= 30.09.2022
Total Quantity of industrial wastewater generated	35.739 MLD
Quantity of treated industrial wastewater discharged into Nalas/ Rivers	0
Common Effluent Treatment Facilities	Installed =0 Under installation= 1
No of Industries meeting Standards	238
No of Industries not meeting discharge Standards	01

b. Identification of gaps and action plan for industrial wastewater:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline For completion of action plan
1.	Compliance to discharge norms by Industries	Necessary action is being taken against the industries not meeting the standards.	PPCB	Regular activity
2.	Complaint redressal system	Online compliant portal already developed and web link is https://connect.punjab.gov.in/grievance/save .	PPCB	Activity completed

6.0 Mining Activity Management plan

a. Current Status related to Mining Activity Management

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	Sand Mining
No of licensed Mining operations In the District	4 mines and 3 desilting sites (currently non operational since April 2021)
% Area covered under mining in the District	0.91%
Area of Sand Mining	1.616 Sq Km
Area of sand Mining	Riverbed= 1.616 Sq km Non –river deposit = 0 Sq km

b. Identification of gaps and action plan:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Monitoring of Mining activity	A district level task team Already Constituted	Department of water resources.	Regular activity
2.	Inventory of illegal mining if any mining	Regular surveillance, patrolling is being carried out to check the illegal mining by the constituted team members. Total FIR Registered for illegal mining from October, 2020 to September, 2021 = 77 Total no. Vehicles impounded of illegal mining from October, 2020 to September, 2021 = 91	Department of water resources, PPCB and District Administration	Regular activity
3.	Environment compliance by Mining industry	Regular surveillance, patrolling is being carried out to check the compliance.	Department of water resources	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.	Drainage Department	Regular activity

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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)	1. As per the guidelines, there is provision for obtaining E.C before commencement of mining. 2. 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	Regular activity
6.	No sand mining is permitted without due compliance of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 as well as regulations governing clearances by the Central Ground Water Authority. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)	The conditions mentioned in the Environmental Cleanliness Certificate issued by the State Level Environment Impact Authority (SEIAA), are being followed. No Mining operations in the leveled riverbed shall be carried out beyond the depth of 3 meters or water level whichever is less/lower.	Drainage Department	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)	Necessary action as per rules is taken on the illegal mining and machinery/vehicles is being seized and handed over to the police authority.	Drainage Department	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)	Penalties imposed for illegal mining as per PMMR 2013 & MMDR 1957	Drainage Department	Regular activity
9.	Status of a detailed restoration plan for the concerned river and its river beds. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)	Mining work is being done on basis of approved mining scheme by including the restoration plan in the mining plan which is recommended by Concerned Mining Officer & approved by State Geologist, Pb.	Drainage Department	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)	Currently, no sand mines are operational by the contractor. So CCTV cameras are not installed by the contractor.	Drainage Department	Not required as no site operational
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)	Continue day and night patrolling in the effective areas continuously carried out by the Police. Hotspots area of Illegal mining area continuously checked at all entry point of	Police Department	Regular activity

		the interstate borders and inter-district. The legal actions are being taken against the culprits at the spot.		
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)	<p>Drainage Department - Currently, no sand mines are operational by the contractor. So daily report would be sent to concerned authorities when the sand mining will be started.</p> <p>Police Department – Status reports of illegal mining are being sent to the District Magistrate, whenever any reference received in this office. The concerned SHO of the area are being directed to submit to daily report to District Megistrate.</p>	Police Department & Drainage Department	Regular Activity
13.	Status of vehicles confiscation. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)	<p>Drainage Department - 91 No. of vehicles confiscated from Oct 20 to Sep 21.</p> <p>Police Department – 151 no. of vehicle confiscated/ seized from Oct 20 to Sep 21</p>	Police Department & Drainage Department	Regular activity
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)	Mechanism will be set up soon.	Drainage Department	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 committee for regular checking's and inspections for proper monitoring the illegal mining activity in District.	Drainage Department	Regular activity
16.	Electronic surveillance through UAVs/Remote Sensing is a good surveillance option especially in areas where sand mafias are active. Night vision drones could be used for checking mining activity at night. (Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)	Currently, no sand mining sites are operational. Mining Department officials carry out surprise checks/nakas to keep a check on same and takes necessary action as per rules in case of illegal mining.	Drainage cum mining Department	31.03.2023.

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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)	Hot spots are already identified where the illegal Mining is being made by the culprits. Special Nakkas and flying squads are being raided at the expected areas to detect the illegal mining. Whenever flying squads or special reading party found any illegal mining the legal action are being taken against the culprits under relevant law accordingly.	Police Department	Regular Activity
18.	Storage Godowns should be at least 5 kms away from the river bank. Otherwise, illegal mining can be carried on under the garb of storage by the leaseholder himself.(Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)	Strict compliance would be done when the mining sites are operational.	Drainage Department	Regular Activity
19.	Geo-fencing of sites, their physical demarcation, allotment of geo-coordinates to all the pillars and their constant physical inspection and electronic surveillance is a must to ensure that the mining activity is as per the approved 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)	Strict compliance would be done with the assistance of Revenue department officials	Drainage Department/ Revenue	30.06.2022
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 transport or, contains a QR Code & can be scanned by any smart phone available in market, to get the desired information of the minor mineral.	Drainage Department	Regular Activity

21.	There has to be an effective mechanism for restoration of environment in case of its degradation due to mining. A portion of the royalty could be reserved for it as Environment Restoration Fund. The Environment 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)	The proposal for the same will be approved from higher offices.	Drainage Department	31.03.2022
22.	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)	Proposal for the same has been sent to higher officers &DC SAS Nagar as well.	Drainage Department	Regular Activity
23.	Annual reports on the subject and such annual reports may be furnished to MoEF & CC by 30th April every year giving status till 31st March. First such report as on 31.03.2022 may be filed with the MoEF & CC by all the States/UTs on or before 30.04.2022.(Directions of Hon'ble NGT in OA no. 360/2015 dated 26.02.2021)	Compliance will be done.	Drainage Department	30.04.2022

7.0 Noise Pollution Management plan

a. Current Status related to Noise Pollution Management

Details of Data Requirement	Measurable Outcome
No. of noise measuring devices available with various agencies in district	Name of agency = PPCB No of analyzers= 1

b. Identification of gaps and action plan:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Availability of Sound/Noise Level Meters.	<ul style="list-style-type: none"> Nos. of analyzers required = 12 Nos. of analyzers available = 01 Balance noise analyzers = 11 (By 	PPCB/ Police Department	30.06.2022

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		Police Department i.e. one meter to each SHO)		
2.	Ambient Noise Level monitoring.	Yet to installed	PPCB	31.12.2022
3.	Signboards in Noise zones	Signboards are installed at sensitive zones. More signboard will be installed	ULBs	30.04.2022
4.	Complaint redressing system	Public complaint redressal system already established in the district.	District Administration, Police Department and PPCB	Activity completed
5.	Checking of pressure horn of vehicles	Regular checking of vehicle is being done by the police department and same activity will be continued.	Police Department.	Regular activity. The checking will be done twice in a month.

List of Nodal Officers(Annexure-X)

List of the Nodal Officers of the stakeholder Departments

Sr no.	Name of the Department	Nodal Officer Name	Designation	Mobile no.	Email Id
1.	Municipal Corporation, Mohali	Sh. Kamal Garg, PCS	Municipal Commissioner	9463775070	mcorpsasnagar@gmail.com
2.	GMADA, Mohali	Er. Ranjiv Manakotla	Executive Engineer	9814177087	deph1gmada@gmail.com
3.	The Additional Commissioner (Urban Development), Mohali	Mrs. Pooja Sayal, PCS	Additional Deputy Commissioner, Urban Development	8968800009	
4.	Punjab Pollution Control Board	Er. Lavneet Dubey	Environmental Engineer	9878950553	eenodal@yahoo.in
5.	Regional Transport Authority, Mohali	Sh. Sukhvinder Kumar	RTA	9872630545	rtamohali65@gmail.com
6.	Police Department, Mohali	Sh. Sanjeev Kumar	Deputy Superintendent of Police	9878450766	dspcccf-sasn@punjabpolice.gov.in
7.	Punjab Energy Development Agency (PEDA)	Sh. Paramjeet Singh	Senior Manager	9815604399	peda.ec@gmail.com
8.	Distt. Development and Panchayat Officer, Mohali (DDPO)	Sh. Sukhchain Singh	DDPO	8288014818	ddpo.mohali3616@gmail.com
9.	District Soil Conservation Officer, Department of Soil & Water Conservation, Mohali	Sh. Harjinder Singh	Divisional Soil Conservation Officer	9814633132	dsc0.dswc.sasn@punjab.gov.in
10.	Superintending Engineer, Punjab Water Supply & Sewerage Board,	Er. Rahul Kaushal &Er. Rajiv Kapoor	Executive Engineer	9780016670 & 9877381490	eep1.pwssb@punjab.gov.in & eer.pwssb@punjab.gov.in

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	Mohali				
11.	PWD (B&R), Mohali	Er. Rajpreet Singh	Executive Engineer	9855472155	pwdmohali@gmail.com
12.	Department of Water Resources & Drainage, Mohali	Sh. Sarabjeet Singh Gill	Executive Engineer	8146000339	miningsasnagar@gmail.com
13.	Agriculture Department, Mohali	Sh. Rajesh Kumar Raheja	Chief Agriculture Officer	7009369864	caomohali@yahoo.in
14.	Forest Department, Mohali	Sh. Amit Chauhan, IFS	Divisional Forest Officer	9891314623	dfosasnagar@gmail.com
15.	PSIEC, Mohali	Sh. Parminder Singh	Superintending Engineer	9814687275	info-psiec@punjab.gov.in
16.	District Food & Civil Supply Officer, DFSC, Mohali	Smt. Shaifali Chopra	DFSO	9876607588	dfsc.dfs.sas@punjab.gov.in
17.	Education Department, Mohali	Smt. Surjit Kaur	Deputy District Education Officer, Elementary Education	9878557622	deoe.sasnagar@punjabeducation.gov.in
18.	Health Department, Mohali	Dr. Renu	Assistant Civil Surgeon	9779933870	civilsurgeonmohali@gmail.com
19.	Animal Husbandry, Mohali	Dr. Sangeet Toor	Deputy Director	9815250888	ddahsasnagar@gmail.com
20.	Labour Department, Mohali	Sh. Mohai Singla	Assistant Director of Factories	9780171847	dofofficework@gmail.com
21.	Director of Factories, Mohali	Sh. Mohai Singla	Assistant Director of Factories	9780171847	dofofficework@gmail.com