



PUNJAB POLLUTION CONTROL BOARD

Regional Office, Fatehgarh Sahib

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Registered

Dated 22/11/2021

To

The Director,

Directorate of Environment and Climate Change,

MGSIPA, Sector-26, Chandigarh.

Subject: Amended District Environment Plan for Fatehgarh Sahib.

The Environment Management Plan for District Fatehgarh Sahib covering the thematic areas, as per the order dated 22.1.2021 of Hon'ble NGT in the matter of Sobha Singh & Ors. Versus State of Punjab & Ors. as well as order dated 19.3.2020 in OA 360/2018 Shree Nath Sharma Versus Union of India & Ors. Was submitted to Director, DECC on 29/10/2021. The same has been reviewed by NGT Monitoring Committee on 10/11/2021 and certain shortcoming were intimated to this office for amendment of the plan.

Accordingly, the plan has been amended by taking inputs from concerned stakeholder departments. A copy of the Amended District Environment Plan for Fatehgarh Sahib, Punjab is sent herewith for your information and further necessary action please.

DA/ As above


22/11/21
Environmental Engineer

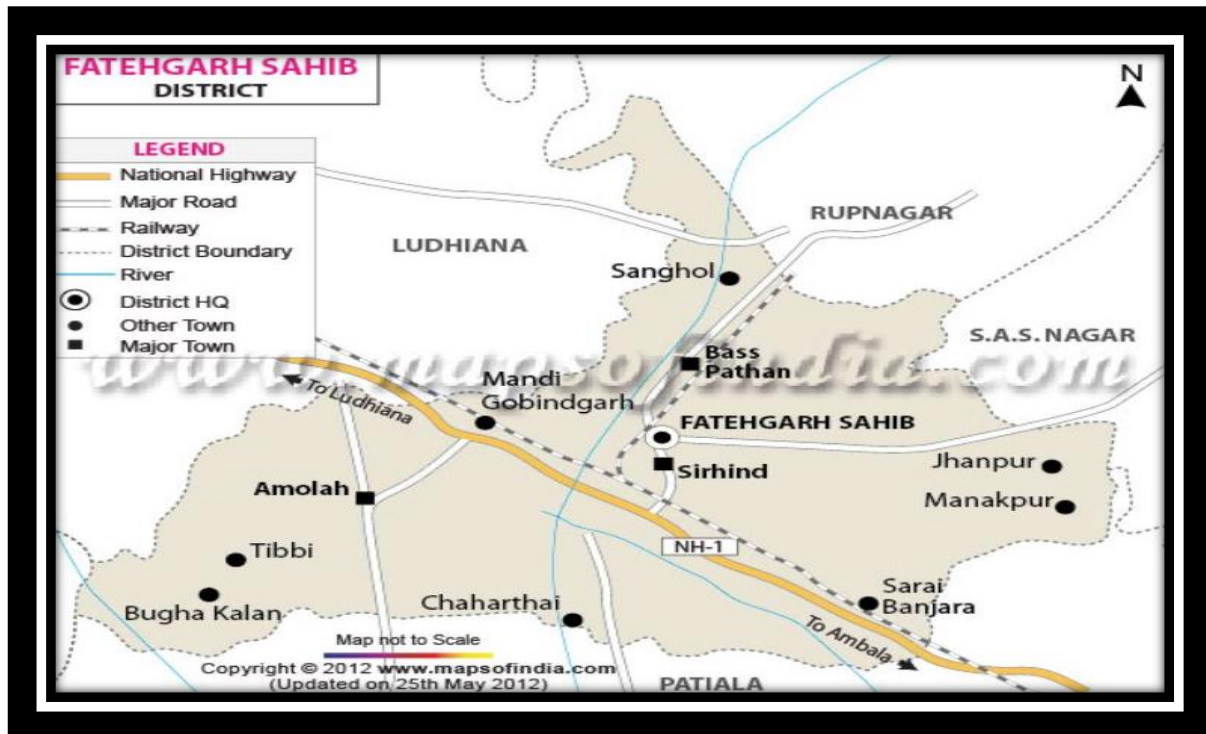
Endst. No.

Dated

A copy of the above is forwarded to the Member Secretary, Punjab Pollution Control Board, Head Office, Patiala for kind information.


Environmental Engineer

District Environment Plan - Fatehgarh Sahib



District Administration Fatehgarh Sahib

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1. DISTRICT PROFILE

- Fatehgarh Sahib District is one of the twenty-two districts in the state of Punjab in North-West Republic of India, with its headquarters in the city of Fatehgarh Sahib. District of Fatehgarh Sahib came into existence on 13 April 1992, Baisakhi Day, deriving its name 'Fatehgarh Sahib' from Sahibzada Fateh Singh, the youngest son of 10th Guru Gobind Singh, who were bricked alive by the orders of Suba Sirhind, Wazir Khan in 1705, and the place is now the site a famous 'Gurudwara Fatehgarh Sahib.

- Fatehgarh Sahib District is located in southeastern part of Punjab state and lies between 30° 25' 00|| to 30° 45' 45|| north latitude & 76° 04' 30|| to 76° 35' 00|| east longitude. The district is one of the smallest in the state constituted in 1992. Total area of the district is 1147 sq.km and falls under Patiala Division. Fatehgarh sahib, Amloh, Khamanon & Bassi Pathana are four teshils of the district. Gobindgarh and Chanarthal is the two Sub-Tehsil in the district. There are five development blocks namely Sirhind, Amloh, Khamanon, Khera & Bassi Pathana. Four major canals passing through the district are Sirhind canal, Bhakara canal (Main Line), Narwana branch and Satluj Yamuna Link (SYL) canal. Sirhind canal passes through western part of the district from North West to south east direction where as Narwana branch bifurcates from Bhakra main canal in the central part of the district and runs from North West to south east direction. Satluj Yamuna Link canal is not in operational. The irrigation is provided by distributaries and minors of Bhakra Canal only.

(i) District Administrative Set-up

Fatehgarh Sahib is one of the districts of the Patiala Division. The total area of Fatehgarh Sahib District is 1,181 sq. Km. Administratively; the district is controlled by District Administration, Fatehgarh Sahib. The district is divided into 4 Sub Divisions/Tehsil, 2 Sub-Tehsils, 5 development Blocks

Total Sub-Divisions	4
Total Tehsils	4
Sub Tehsil	2
Blocks	5
Total Villages	428

(ii) Local institutions

In District Fatehgarh Sahib, there are total 4 Sub-Divisions/Tehsils and 5 towns. There are 02 Sub-Tehsil, 5 Blocks, 4 Municipal Council and 1 Nagar Panchayat. There are total 428 Villages in the Districts.

(iii) Natural Resources

- a) Bhakhra Canal: The only surface water body flowing near Mandi Gobindgarh is Bhakhra Main Line Canal, which runs throughout the year
- b) Sirhind Choe : One non-perennial choe (storm water drain) named as Sirhind Choe also passes near Mandi Gobindgarh. It originates from Sirhind and terminates into River Ghaggar
The Sirhind Choe enters in the jurisdictions of Distt Fatehgarh at bridge on Morinda Chhuni Road at Vill Shergarh Barra, Tehsil Bassi Pathana (Co-ordinates 30.711241, 76.535344). This part of Sirhind Choe ends up in form of a pond at Vill. Main Majri (Co-ordinates 30.708797, 76.523148).

The further part of Sirhind Choe has been ploughed by the adjacent agriculture land owners. No Industrial unit is situated near this part of Sirhind Choe, hence no trade effluent is discharged into the same. The Sirhind Choe re-originate at village Fatehpur Arayan, Tehsil Bassi Pathana (Co-ordinates 30.669908, 76.418888) from the village Pond

- c) Pataila ki Rao : Its also known as Patialawali Nadi and runs through southern eastern part of the district. This stream originates in Shiwalik Hills and after traversing through Kharar enters Fatehgarh Sahib Sirhind LPA from southwest part of district. It ultimately joins Ghaggar River after flowing in Patiala District.
- d) Nirwana Branch This is a distributary of main Sirhind Canal running down parallel to the National highway from southwest to southeast part of the Fatehgarh Sahib Sirhind LPA.
- e) Tara Minor
- f) Sangatpura Minor
- g) Sirhind Distributary
- h) Saidpura Minor
- i) Rajindergarh Minor
- j) Rajpura Distributary
- k) Narainawala Choe

(iv) Geography & Demography

Important Statistics				
			State	District
Number of Villages	Total		12,581	446
	Inhabited		12,168	442
	Uninhabited		413	4
Number of Towns	Statutory		143	5
	Census		74	-
	Total		217	5

Number of Households		Normal	5,486,851		117,464
		Institutional	16,367		383
		Houseless	9,853		253
Population	Total	Persons	27,743,338		600,163
		Males	14,639,465		320,795
		Females	13,103,873		279,368
	Rural	Persons	17,344,192		414,681
		Males	9,093,476		220,050
		Females	8,250,716		194,631
	Urban	Persons	10,399,146		185,482
		Males	5,545,989		100,745
		Females	4,853,157		84,737
Percentage Urban Population		37.48		30.91	
Decadal Population Growth					
2001-2011		Number	Percentage	Number	Percentage
	Persons	3,384,339	13.89	61,693	11.46
	Males	1,654,420	12.74	30,425	10.48
	Females	1,729,919	15.21	31,268	12.60
Area (in sq Km.)		50362		1180.00	
Density of Population (Persons per sq Km.)		551		509	
Sex Ratio	Total	895		871	
(Number of females per 1000 males)	Rural	907		884	
	Urban	875		841	

Important Statistic

		State	District
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		Number	Percentage	Number	Percentage
Literates	Persons	18,707,137	75.84	426,033	79.35
	Males	10,436,056	80.44	238,696	83.33
	Females	8,271,081	70.73	187,337	74.80
Scheduled Castes	Persons	8,860,179	31.94	192,493	32.07
	Males	4,639,875	31.69	101,882	31.76
	Females	4,220,304	32.21	90,611	32.43
Scheduled Tribes	Persons	-	0	-	0.00
	Males	-	0	-	0.00
	Females	-	0	-	0.00
Workers and Non-Workers					
Total Workers (Main and Marginal)	Persons	9,897,362	35.67	214,783	35.79
	Males	8,074,157	55.15	182,777	56.98
	Females	1,823,205	13.91	32,006	11.46
(i) Main Workers	Persons	8,450,936	30.46	192,845	32.13
	Males	7,264,631	49.62	168,110	52.40
	Females	1,186,305	9.05	24,735	8.85
(ii) Marginal Workers	Persons	1,446,426	5.21	21,938	3.66
	Males	809,526	5.53	14,667	4.57
	Females	636,900	4.86	7,271	2.60
Non-Workers	Persons	17,845,976	64.33	385,380	64.21
	Males	6,565,308	44.85	138,018	43.02
	Females	11,280,668	86.09	247,362	88.54
Category of Workers (Main & Marginal)					
(i) Cultivators	Persons	1,934,511	19.55	44,245	20.60
	Males	1,753,359	21.72	41,834	22.89
	Females	181,152	9.94	2,411	7.53
(ii) Agricultural Labourers	Persons	1,588,455	16.05	21,389	9.96
	Males	1,239,445	15.35	19,159	10.48
	Females	349,010	19.14	2,230	6.97
(iii) Workers in household industry	Persons	385,960	3.9	8,048	3.75
	Males	249,294	3.09	5,798	3.17
	Females	136,666	7.5	2,250	7.03

(iv) Other Workers	Persons	5,988,436	60.51	141,101	65.69
	Males	4,832,059	59.85	115,986	63.46
	Females	1,156,377	63.43	25,115	78.47

(v) Land-use pattern

The preparation of Existing Land Use map was undertaken with the help of Punjab Remote Sensing Centre (PRSC), Ludhiana. The maps based on satellite imageries were updated by undertaking field surveys. Out of total LPA area i.e. 83165.37 acre(33670.19 hectares) (as per PRSC), 76725.69 acres (92.26%) is occupied by agricultural use followed by residential 3160.26 acres (3.8%), traffic and transportation 2107.14acre (2.53%), public semi/public 488.94 acre (0.59%), commercial 304acre (0.37%), industrial 147.60 acre(0.18%), governmental 142acre (0.17%) and recreational 46.18acre (0.5%)and heritage 43.56acre (0.05%). For Fatehgarh Sahib-Sirhind town, out of total area of 4730.17 acres (1915 hectares), 3184.94acre (67.33%) is occupied by rural agriculture, followed by residential use 570.42 acres(12.06%), traffic & transportation 335.92acres (7.10%), public and semi public 287.36acres (6.08%), commercial use 156.68 acres (3.31%), governmental 69.30acres (1.47%), recreational 44.43acres (0.94%), heritage 43.56 acres(0.92% and industrial use 37.56acres (0.79%)

(vi) Climate

The climate of the District Fatehgarh Sahib is characterized by dryness except a brief spell of monsoon season in a very hot summer and a bracing winter. The winter season is from middle of November to the early part of March. The succeeding period up-to the end of June is the hot season. July, August and half of September constitute the south west of monsoon, the period of mid-September to about the middle of

November may be termed as post monsoon or transitional period. June is generally the hottest month. Hot and scorching dust laden winds blow during summer season. December & January are the coldest months. The mean daily temperature varies in the range of 5°C to 43°. The yearly average data of climate & Weather of district Fatehgarh Sahib is as under:-

All Year Climate Averages in Fatehgarh Sahib		
High Temp: 40 °C	Precipitation: 60.8 mm	Wind: 2 km/h
Low Temp: 6 °C	Humidity: 71%	Pressure: 1008 mbar
Mean Temp: 25 °C	Dew Point: 18 °C	Visibility: 3 km

ACTION PLAN

2. WASTE MANAGEMENT PLAN

(i) Solid Waste Management

(a) Current status related to solid Waste management

Sn.	Urban Local bodies	No of Wards	No of Households	Population	Solid Waste Generated (In TPD)
	MC, Sirhind	23	13066	58097	16
	MC, Mandi Gobindgarh	29	12100	89797	37
	MC, Amlah	13	4639	14696	4.5
	MC, Bassi Pathana	15	4555	22182	6
	Nagar Panchayat Khamanon	13	2342	10128	4.5
	Total	87	36702	160126	43

	Local Bodies	No of Blocks	No of Village panchayats / Blocks	No of Households	Population	Solid Waste Generated (In TPD)
1	Block /Taluk / Mandal Tehsils	5	428	82659	4,14,157	154 Approx.

(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				
	MC, Sirhind	100 % segregation achieved. No Gap	Not Required	EO, Sirhind	Activity Completed
	MC, Mandi Gobindgarh	100 % segregation achieved. No Gap	Not Required	EO, Mandi Gobindgarh	Activity Completed
	MC, Amlah	100 % segregation	Not Required	EO, Amlah	Activity

		achieved. No Gap			Completed
	MC, Bassi Pathana	100 % segregation achieved. No Gap	Not Required	EO, Bassi Pathana	Activity Completed
	Nagar Panchayat, Khamanon	95 % segregation achieved. No Gap	Door to door awareness regarding source segregation and home composting is being done	EO, Khamanon	31-12-2021
	Villages Panchayat (428)	Segregation not being done in maximum villages.	Yet to prepare.	DDPO	<ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs
2	Sweeping				
(i)	Manual Sweeping				
	MC, Sirhind	100% sweeping being done, no gap	NA	EO, Sirhind	Regular activity and is being complied with
	MC, Mandi Gobindgarh	100% sweeping being done, no gap	NA	EO, Mandi Gobindgarh	Regular activity and is being complied with
	MC, Amloh	100% sweeping being done, no gap	NA	EO, Amloh	Regular activity and is being complied with
	MC, Bassi Pathana	100% sweeping being done, no gap	NA	EO, Bassi Pathana	Regular activity and is being complied with
	Nagar Panchayat, Khamanon	100% sweeping being done, no gap	NA	EO, Khamanon	Regular activity and is being complied with
	Villages Panchayat	10% sweeping being done. 90% road is not Covered.	More manpower is being deployed.	DDPO	<ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs By 30.06.2025 - 107 VPs
Mechanical Road Sweeping & Collection					

	MC, Mandi Gobindgarh	Purchase of mechanical road sweeping machine is under process.	-	EO, Mandi Gobindgarh	31-12-2021
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Sr. No.	Action points For villages / blocks /town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
3	Waste Collection				
(i)	100% collection of solid waste	No gap • Sirhind 100 % • Mandi Gobindgarh 100 % • Amloh 100 % • Bassi Pathana 100 % • Khamanon 100 %	Not required	EOs of concerned ULBs.	MCs- Activity completed
(ii)	Arrangement for door to door collection	Adequate in all MCs Village Panchayats (428) = Not adequate		DDPO for all villages	Village Panchayats- • Preparation of Action Plan -31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs
(iii)	Waste Collection trolleys with separate Compartments	Tractor Trolleys provided with compartments Required/ Available • Sirhind 9/9 • Mandi Gobindgarh 05/05 • Amloh 2/2 • Bassi Pathana 5/5 • Khamanon 2/2 Village Panchayats (428) = Not adequate			
(iv)	Mini Collection Trucks with separate compartments	ULB: Requirement/ Available • Sirhind 1/1 • Mandi Gobindgarh 02/02 • Amloh 1/1 • Bassi Pathana 1/1 • Khamanon 1/1 Village Panchayats (428) = Not adequate.			

(v)	Waste Deposition centers (WDC) (for domestic hazardous wastes)				
I.	MC, Sirhind	Required –1 Installed – 1 Gap – Nil	The domestic hazardous waste collected from D to D is being stored at MRFs.	EO, Sirhind	Activity completed
II.	MC, Mandi Gobindgarh	Required – 2 Installed – 2 Gap – Nil	The domestic hazardous waste collected from D to D is being stored at MRFs.	EO, Mandi Gobindgarh	Activity completed
III.	MC, Amloh	Required –1 Installed – 1 Gap – Nil	The domestic hazardous waste collected from D to D is being stored at MRFs.	EO, Amloh	Activity completed
IV.	MC, Bassi Pathana	Required –1 Installed – 1 Gap – Nil	The domestic hazardous waste collected from D to D is being stored at MRFs.	EO, Bassi Pathana	Activity completed
V.	Nagar Panchayat, Khamanon	Required –1 Installed – 1 Gap – Nil	The domestic hazardous waste collected from D to D is being stored at MRFs.	EO, Khamanon	Activity completed
VI.	Villages Panchayat (428)	Required =428 Installed =21	Yet to prepare.	DDPO	Preparation of action plan - 31.03.2022 Implementation – 30.06.2025 By 30.06.2022 - 107 VPs By 30.06.2023 - 107 VPs By 30.06.2024 - 107 VPs By 30.06.2025 - 107 VPs

4 Waste Transport					
(i)	Review existing infrastructure	ULB: Rickshaw Rehris/Tata Ace/Tractor trolleys Tata Ace/ Rickshaw Rehri <ul style="list-style-type: none"> • Sirhind 9/9 • Mandi Gobindgarh 62/62 • Amloh 2/2 • Bassi Pathana 5/5 • Khamanon 2/2 Village Panchayats (428) = Not adequate	Adequate	EOs of concerned ULBs.	Activity completed
(ii)	Bulk Waste Trucks	<ul style="list-style-type: none"> • Sirhind Tractor trolley-2 • Mandi Gobindgarh - 1 • Amloh 0 • Bassi Pathana 1 • Khamanon 1 	Adequate	EOs of concerned ULBs.	Activity Completed
(iii)	Waste Transfer points	Available & Adequate in all MCs / NPs	Not Required	EOs of concerned ULBs.	Activity Completed
5 Waste Treatment and Disposal					
(i)	Wet-waste Management: On-site composting by bulk waste generators (Authority may decide on requirement as per Rules).	<u>No. of BWGs</u> <ul style="list-style-type: none"> • Sirhind: Identified 5 onsite composting 5 • Mandi Gobindgarh: Identified - 07 onsite composting 06 • Amloh: Identified 9 onsite composting 0 • Bassi Pathana: identified 0 onsite composting 0 • Khamanon: identified 0 onsite composting 0 	Identified bulk generators will be visited and onsite Composting will be get done from them. Also, new bulk generators will be identified.	MC/NP & PPCB	30.06.2022
(ii)	Wet-waste Management: Facilities for central Bio-methanation/ Composting of wets waste.				
I.	MC, Sirhind	Required - 70 Provided – 70 Gap - Nil	Already provided required no. of compost pits, however, its effective use will be ensured.	EO, Sirhind	Activity Completed
II.	MC, Mandi Gobindgarh	Required - 80 Provided – 80 Gap - Nil	Already provided required no. of compost pits, however,	EO, Mandi Gobindgarh	Activity Completed

			its effective use will be ensured.		
III.	MC, Amloh	Required - 22 Provided – 22 Gap - Nil	Already provided required no. of compost pits, however, its effective use will be ensured.	EO, Amloh	Activity Completed
IV.	MC, Bassi Pathana	Required - 31 Provided – 31 Gap - Nil	Already provided required no. of compost pits, however, its effective use will be ensured.	EO, Bassi Pathana	Activity Completed
V.	Nagar Panchayat, Khamanon	Required - 26 Provided – 26 Gap - Nil	Already provided required no. of compost pits, however, its effective use will be ensured.	EO, Khamanon	Activity Completed
VI.	Villages Panchayat	Not Adequate	Plan yet to be prepared	DDPO	<ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs
(iii)	Dry-Waste Management: Material Recovery for dry-waste fraction	MC Mandi Gobindgarh Required- 2 Available - 2 Gap – Nil MC Sirhind Required- 1 Available - 1 Gap – Nil MC Amloh Required- 1 Available - 1 Gap – Nil	All MCs/NPs have provided required no. of Material Recovery Facilities	EOs of concerned ULBs	Activity Completed

		MC Bassi Pathana Required- 1 Available - 1 Gap – Nil NP Khamanon Required- 1 Available - 1 Gap – Nil			
		Villages Panchayat (428)	Action Plan yet to be prepared	DDPO	<ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs
(iv)	Disposal of inert and non-recyclable wastes: Sanitary Landfill	MC Mandi Gobindgarh has already identified land for sanitary landfill site and work has been completed	Remaining MCs/NPs are in the process of identifying sanitary landfill sites.	EOs of concerned ULBs	31-12-2022
(v)	Remediation of historic / legacy dumpsite				
i.	MC, Sirhind	Total legacy waste = 300 MT Waste Remediated = 120 MT	Machinery Purchased work started.	EO, Sirhind	30-06-2022
ii.	MC, Mandi Gobindgarh	Total legacy waste = 42,000 MT Waste Remediated = 28,050 MT	Machinery Purchased work started.	EO, Mandi Gobindgarh	30-06-2022
iii.	MC, Amloh	Total legacy waste = 25000 MT Waste Remediated = 0 MT	Machinery Purchased work started.	EO, Amloh	30-06-2022
iv.	MC, Bassi Pathana	Total legacy waste = 200 MT Waste Remediated = 25 MT	Machinery Purchased work started.	EO, Bassi Pathana	30-06-2022
v.	Nagar Panchayat, Khamanon	Total legacy waste = 410 MT Waste Remediated = 102.5 MT	Machinery Purchased work started.	EO, Khamanon	30-06-2022
vi.	Villages Panchayat (428)	Not Started	Scheme for treatment of legacy waste in villages is yet to be	DDPO	<ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025

			prepared accordingly.		<ul style="list-style-type: none"> • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs
vii.	Involvement of NGOs	Yes	NGOs shall be identified for the purpose.	EOs of concerned ULBs	Regular Activity
viii.	EPR of Producers: Linkage with Producers / Brand Owners	Linkage with Producers / Brand Owners	All the producer/brand owners are being directed to submit the action plan for the disposal of its plastic waste under extended producer responsibility.	EOs of concerned ULBs	30-06-2022
ix.	Authorization of Waste Pickers	ULB: WPs Identified/ Authorized <ul style="list-style-type: none"> • Mandi Gobindgarh- 18/18 • Sirhind -18/18 • Amloh – 4/4 • Bassi Pathana- 2/2 • Khamanon- 1/1 	As per requirement, authorization of waste pickers will be carried out.	ULBs & DDPO	Regular activity
x.	Preparation of own by-laws to comply with SWM Rules 2016	All MCs Prepared. DDPO (for villages 428) yet to be prepared	All MCs Prepared. DDPO (for villages 428) yet to be prepared	EOs of concerned ULBs and DDPO	All MCs + Activity Completed DDPO (for villages 428) = 31.10.2022
xi.	Removal of garbage vulnerable points(GVPs)	No gap, as activity Completed	All the identified (GVPs) have been removed by the all MCs.	EOs of concerned ULBs	Activity Completed
xii.	Provision of green belt and boundary wall around solid waste dumping site.	MC Mandi Gobindgarh Green Belt –Provided Boundary Wall - Yes MC Amloh Green Belt –Not Provided (Tender in Process) Boundary Wall - Yes MC Sirhind Green Belt –Provided	The green belt around the boundary wall and construction of boundary wall of remaining	Concerned MCs/NPs	31.03.2022

		Boundary Wall – Under Construction MC Bassi Pathana Green Belt –Not Provided Boundary Wall – Under Construction NP Khamanon Green Belt –Provided Boundary Wall - Yes	MCs will be started & completed by 31.03.2022		
xiii.	Providing compartments and GPS tracking in garbage carrying vehicles	All the MCs/NPs have provided compartments & VPS tracking in garbage carrying vehicle as under: <ul style="list-style-type: none"> • Sirhind 9/9 • Mandi Gobindgarh 15/15 • Amloh 2/2 • Bassi Pathana 5/5 • Khamanon 3/3 	Already complied with	EOs of concerned ULBs	Activity Completed
xiv.	Stopping solid waste/ garbage being thrown into Water bodies	Nil as activity completed	Not required	EOs of concerned ULBs	Activity Completed
xv.	Action Plan for Treatment of leachate generated from legacy waste dumpsite. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)	Treatment of leachate	Leachate management will be done along with Bio-remediation of legacy waste.	MCs/NPs	30/06/2022
xvi.	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	No Gap	Swachhata app is widely used by citizens for complaints related to SWM/ SBM, It is resolved and monitored at ULB and state level both. Link for updated Swachhata-	All Local bodies	Already in place

	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)		MoHUA App: https://play.google.com/store/apps/details?id=com.ichanagemycity.swachhbharat		
xvii.	CCTV cameras be installed at dumping sites. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)	None of the MC/NP has installed CCTV camera at dump sites	CCTV cameras will be installed at dumping sites by 31.12.2021	MCS/NPs	31.12.2021
xviii.	Installation of Piezometer at Dump Site. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)	MC Mandi Gobindgarh - Installed MC Amloh - Installed MC Sirhind - Installed MC Bassi Pathana - Installed NP Khamanon - Installed	Already installed	EOs of concerned ULBs	Activity Completed
xix.	Carcass should be utilized by adopting rendering process or incineration and priority may be given to carcass utilization plants which are run by adopting rendering process. (Directions of Hon'ble NGT in OA no. 465/2019 dated 15.04.2021)	Presently, Carcass of dead animals are being given to private contractor by MCs/NPs.	Proposal for utilization of carcass in a scientific manner is under consideration. However, boundary wall, hedges and plantation all around the carcass disposal points will be provided to control nuisance in the area as short-term measure by 31.03.2022.	MCS/NPs	For proposal submission – 31.3.2022 For installation – 30.06.2023

			Furthermore, 1 rendering plant shall be installed in the district for management of carcasses.		
xx.	Carcass disposal to be done under the supervision Veterinary/An imal Husbandry Department of the State and the Local Bodies. (Directions of Hon'ble NGT in OA no. 465/2019 dated 15.04.2021	No gap	Carcass disposal will be ensured under the supervision of veterinary doctors.	EOs of concerned ULBs	Regular activity
xxi.	Management of waste water and solid waste by the unauthorized colonies/resid ential complex/com mercial complex developed by Pvt. Colonizers.	Inadequate management of solid waste and liquid waste in colonies / commercial complex.	The unauthorized colonies / residential complex/com mercial complex projects will be visited to verify the present method of management of solid waste & liquid waste generated from said projects and compliance will be made from said projects, thereafter, accordingly.	MCs/NPs/ DDPOs	Identification – 31.03.2022 • Implementatio n – 31.03.2023
xxii.	To prepare proposal /	Inadequate Management of solid	Scheme is yet to be	DDPO	31.03.2022

	scheme for management of solid waste in the villages either in cluster form or independently in individual villages	waste in the villages.	prepared.		
xxiii.	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.	EOs of concerned ULBs and DDPO	Regular Activity
xxiv.	Constitution of District Environment Committee in view of the constitution provisions under article 243 G, 241 W and 243 ZD read with scheduled 11, 12 & 15 of SWM Rules, 2016.	No gap	Constituted by the State Government.	State Government	Activity completed
xxv.	Management of carcass in rural area.	Inadequate management of carcass in rural area.	No. of carcasses existing = 420 No. of carcass provided liquid waste management = NIL	DDPO	<ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs

(ii) Plastic waste Management

(a) Current status related to Plastic waste management

Sn.	Urban Local bodies	Estimated quantity of Plastic Waste Generated MT/per day
1.	MC, Sirhind	0.52
2.	MC, Mandi Gobindgarh	2.71
3.	MC, Amluh	0.30
4.	MC, Bassi Pathana	0.28
5.	Nagar Panchayat, Khamanon	0.36
	Total	4.17

Sr. no.	Local Bodies	Estimated quantity of Plastic Waste Generated (in MTD)
1	Villages Panchayats	1.5

Identification of gaps and Action plan:

S. No.	Action points Forvillage panchayats/ blocks/ municipalitie s / corporations	Identification ofgap	Action plan	Agencies Responsible	Target timefor Compliance
1.	Door to Door collection of dry waste including PW	<ul style="list-style-type: none"> • MC, Sirhind = 100 % Collection • MC, Mandi Gobindgarh = 100 % Collection • MC, Amluh = 100 % Collection • MC, Bassi Pathana = 100% Collection • Nagar Panchayat, Khamanon = 100 % Collection • Village Panchayats (428) = Not initiated 	Not required as collection system is already adequate in all the ULBs.	EOs of concerned ULBs DDPO	Regular activity <ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs

					<ul style="list-style-type: none"> • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs
2.	Facilitate organized collection of plastic Waste at Waste transfer point or Material Recovery Facility	<p>Adequate Door to Door garbage Collection system and collected at following MRFs</p> <ul style="list-style-type: none"> • Mandi Gobindgarh- 2 • Sirhind -1 • Amloh – 1 • Bassi Pathana- 1 • Khamanon- 1 <p>Villages panchayats (428) = partial collection.</p>	<p>All MCs/NPs have installed required no. Material Recovery Facilities (MRF).</p> <p>Action plan yet to be prepared</p>	<p>EOs of concerned ULBs</p> <p>DDPO</p>	<p>Activity completed</p> <ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs
3.	Plastic Waste collection Centres	<p>MC Mandi Gobindgarh Required- 2 Available - 2 Gap – Nil</p> <p>MC Amloh Required- 1 Available - 1 Gap – Nil</p> <p>MC Sirhind Required- 1 Available - 1 Gap – Nil</p> <p>MC Bassi Pathana Required- 1 Available - 1 Gap – Nil</p> <p>NP Khamanon Required- 1 Available - 1 Gap – Nil</p>	<p>All MCs/NPs have installed required no. Material Recovery Facilities.</p>	<p>EOs of concerned ULBs</p>	<p>Already completed</p>
4.	Awareness and education programs	No gap	Awareness is being created amongst the public by	EOs of concerned ULBs	Regular activity.

	implementa tion		organizing seminars, through school children, by providing banners at prominent places of the city etc. The MCs/NPs are conducting meetings with owners of hotels / restaurants / marriage palaces to eliminate single use plastic		
5.	Access to Plastic Waste Disposal Facilities	MCs have already signed an agreement with Max Company for disposal of plastic waste.	No gap	EOs of concerned ULBs	Regular activity.
6.	Plastic Industry Registration. Total no. of plastic unit required registration. Total no. of plastic unit obtained registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	Total no. of plastic unit required registration = 17 Total no. of plastic unit obtained registration = 14	No gap	PPCB	Timeline for registration of the remaining units: 31.12.2021
7.	Development and setting up of infrastructure for segregation,	Inadequate disposal arrangement of plastic waste	• PMIDC came into contract with one agency	MCs / NPs	31.03.2022

	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)		MAX Specialty Films in this regard to purchase/c collect any kind of plastic garbage from the ULBs. • PMIDC coordinated with PWD and Mandi Board to utilize plastic waste in Roads. More effective Disposal facility needs to be engaged under guidance of PMIDC		
8.	Framing of bye-laws incorporating the provisions of Plastic Waste Management Rules, 2016. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	ULBs- Already made Rural areas- yet to frame	All MCs- Bye-laws already framed. Rural Panchayats = Yet to be prepared	MCs/NPs and DDPO	Activity already completed 31.03.2022
9.	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)	Inadequate	Proposal is yet to be prepared	DDPO	<ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs

10.	Ban on non-recyclable single use polythene bags. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	ULBs - Initiated	Ban has been already imposed by the State Govt., on sale, purchase, manufacturing and stock of plastic carry bags. The MoEF & CCP vide its notification dated 12.08.2021 has banned Single use plastic with effect from 1.07.2022. Further, the guidelines of the Centre and State Govt., regarding banning of single use plastic will also be complied with.	ULBs & PPCB	Activity already completed
11.	Segregation, collection, storage, transportation of plastic waste and channelizing of recyclable plastic waste fraction to recycler having valid	No gap.	Recyclable plastic waste is collected, transported and stored separately by all ULBs. Currently such plastic is being stored at MRF.	ULBs	Activity already completed

	registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	In Villages – not adequate.	Action plan is yet to be prepared	DDPO	<ul style="list-style-type: none"> • Preparation of Action Plan - 31.03.2022 • Implementation – 30.06.2025 • By 30.06.2022 - 107 VPs • By 30.06.2023 - 107 VPs • By 30.06.2024 - 107 VPs • By 30.06.2025 - 107 VPs
12.	Awareness to the waste generator to take steps to minimize the plastic waste and segregate plastic waste at source. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	No Gap	Awareness is being carried out on regular basis. Camp will be organized of quarterly basis.	EOs of concerned ULBs and DDPO	Regular activity
13.	Encouragement to the education institute to take up waste management in their curriculum and create student project for waste recycling. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	No gap	Already being followed and seminars are being organized.	DEO primary 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)	Initiated	Directions have already been given to BDPO's ensuring segregation, collection, storage, transportation, plastic waste and channelization of recyclable plastic waste fraction to recyclers having valid registration	DDPO	Regular activity
15.	Creating awareness among all stakeholders about their responsibilities, and ensuring that open burning of plastic waste does not take place. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	No gap	All stakeholders are being made aware regarding their responsibility. It is being ensured that open burning of plastic waste does not take place. Violators are being challaned.	EOs of concerned ULBs	Regular activity
16.	To ensure proper plastic waste management, industries may be directed to explore the possibilities of use of such	Plastic waste use in construction of roads	Instructions are being given to the industries regularly to explore the possibility of use of plastic	EOs of concerned ULBs, ADC(UD) and PWD	31.03.2022

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)		waste in a scientific manner like in road construction etc. in consultation with 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)	MC Mandi Gobindgarh- 0.5 MTD MC Amloh- 0.10 MTD MC Sirhind- 0.1 MTD MC Bassi Pathana – 1 MTD NP Khamanon- 0.2 MTD Total- 1.9 MTD
Does the District has access to C&D waste recycling facility?	No

(b) Identification of gaps and Action plan:

Sn.	Action points for blocks / town municipalities / City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Arrangement for separate collection of C&D waste to C&D waste deposition point.	All the MCs/NPs have already identified sites for disposal of C & D waste. MC Mandi Gobindgarh- 1 MC Amloh- 1 MC Sirhind- 1 MC Bassi Pathana – 1 NP Khamanon- 1	Already completed	MCs / NPs	Activity completed
2.	Whether local authority have fixed user fee on C&D waste and introduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month?	As per Solid Waste Management Cleanliness and Sanitation Bye laws Dated 11.08.20 Notification no 5/105/2020- 2lg4/139(A) MCs fixed user fee on C & D waste which is Rs 500 per ton and will put up the proposal regarding permissions required by bulk waste generators in next house meeting for	Not required	EOs of concerned ULBs	Activity completed

		approval			
3.	C&D recycling Facility	Presently, there is no C&D recycling Facility, however, one such recycling facility is to be provided in the district.	Department of Urban Development is preparing proposal for installation of recycling facility.	ADC (UD)	<ul style="list-style-type: none"> Preparation of proposal 31.03.2022 Implementation 30.04.2023
4.	Usage of recycled C&D waste in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	Presently there is no C&D recycling facility in the District. No C&D waste is being recycled.	Department of Urban Development is preparing proposal for installation of recycling facility. Once, the recycling facility will be installed, C&D waste will be recycled.	MCS/NPs	<ul style="list-style-type: none"> Preparation of proposal 31.03.2022 Implementation 30.04.2023
5.	ICE on C & D waste management	No gap	Awareness will be done through media, NGOs & Radio on quarterly basis.	EOs of concerned ULBs	Regular Activity. One camp will be organized quarterly.

(iv) Bio medical Waste Management

(a) Current Status related to biomedical waste

Inventory of BMW in the District	Quantity
Total no. of Bedded Healthcare Facilities	97
Total no. of non-bedded HCF	170
No. of HCFs authorized by SPCBs/PCCs	267
Total No. of veterinary Hospitals/Dispensaries in the District Fatehgarh Sahib	85
Total No. of veterinary Hospitals/Dispensaries connected with Common Biomedical treatment facility (CBWTF).	85
Total no. of veterinary Hospitals/ Dispensaries obtained the authorization of Punjab pollution Control Board	85
Total No. of veterinary Hospitals/Dispensaries adopted segregation of BMW through separate colour coded collections bins.	85
Total no. of veterinary Hospitals/Dispensaries complying with BMW Rules, 2016 and Maintaining record of Biomedical waste generation and its disposal to CBWTF.	85
No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs)	0
Capacity of CBWTFs	NA
No. of Deep burials for BMW if any	0
Quantity of biomedical waste generated per day	124.82 Kg/day
Quantity of biomedical waste treated per day	124.82 Kg/day

(b) Identification of gaps and Action plan:

Sn	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 HCFs identified (Bedded + non-bedded)= 267 HCFs authorized by the PPCB = 267. 	Regular camps are being organized to pursue the HCFs to obtain the authorization .	PPCB	Regular activity

2.	Adequacy of facilities to treat biomedical waste	No Gap. Adequate CBWTF installed in the District.	Not required	PPCB	Activity completed
3.	Tracking of Bio-Medical Waste	No Gap. Bar code system has been implemented by all HCFs and CBWTFs. No gap	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. One camp will be organized in a quarter.	Not required	PPCB and Health Department	Regular activity
5.	Adequacy of Funds	No gap	Private HCFs = Funds available Govt., HCFs = Funds Being arranged	Civil Surgeon	31.10.2022
6.	Compliance to Rules by HCFs and CBWTFs	No gap, regular monitoring is being done to check the compliance.	BMW Rules, 2016 are complied with except provisions of ETPs cum STPs	PPCB, HCFs, CBWTF and civil surgeon	Regular activity
7.	District Level Monitoring Committee	District Level Monitoring Committee has been constituted	Meetings are taken on monthly basis District Environment Committee.	District Administration and PPCB	Regular Activity
8.	Waste water Treatment	<ul style="list-style-type: none"> Total HCFS Required ETP =73 Total HCF install ETPs = 3 	HCFs are being pursued to install the ETP. The meetings are being held with the	PPCB	<ul style="list-style-type: none"> The timelines vide Board order no. 468 dated 31.08.2021 timeline has been

			association members.		<p>given as 31.03.2022 .</p> <ul style="list-style-type: none"> The HCF will submit a Bank Guarantee to the Board as an assurance to submit analysis results and installation of appropriate and adequate system to achieve prescribed standards. In case sample fail to achieve the prescribed standard.
9.	<p>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</p>	<p>Already Being Complied.</p> <ul style="list-style-type: none"> Most of the Hospitals now have provided the digital X-Ray, hence no such waste is generated from digital X-ray. The Hospitals which have not provided the digital x-ray machine have made the 	Already Being Complied.	Health department	Activity Completed

	in OA no. 710 of 2017 dated 18.01.2021)	agreement with the authorized agency for the disposal of its waste.			
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(v) Hazardous Waste Management

(a) Current Status related to Hazardous Waste Management

Details of Data Requirement	Present Status
No of Industries generating HW	349
Quantity of HW in the district (MT/Annum)	3660.025 MTA
Quantity of Incinerable HW (MT/Annum)	0.5 MTA
Quantity of land-fillable HW(MT/Annum)	640 MTA
Quantity of Recyclable / utilizable HW (MT/Annum)	3019.525 MTA
Nos. of captive/common TSDF	NIL
Contaminated Sites or probable contaminated sites	NIL
Monitoring of ground water of common TSDF.	NIL

(b) Identification of gaps and action plan:

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 = 349Authorized by the PPCB = 336.	Regular camps are being organized to pursue the industries to obtain the authorization.	PPCB	30.06.2022
2.	Establishment of collection centers	No gap.	The industries generating hazardous waste have already executed an agreement with TSDF and authorized recyclers for disposal of hazardous waste. However, a continuous follow up will be made to rule out unscientific disposal of hazardous waste by the industrial unit	PPCB	Regular activity

3.	Training of workers involved in handling / recycling / disposal of HW	Industries generating HW already identified	The workers are being trained time to time. One training program will be provided in a quarter.	Department of Industries	Regular activity
4.	Availability / Linkage with common TSDF or disposal facility	The industries generating HW have made agreement with common TSDF in the State. No. of units identified linked with CTSDf = 336	The industries generating HW have made agreement with common TSDF in the State.	PPCB	Activity completed
5.	Contaminated Sites	No Contaminated Site exists.	No Contaminated Site exists.	PPCB	No Contaminated Site

(vi) E-Waste Management

(a) Current Status related to E-Waste Management

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	0.23 MTA
Collection centers established by ULBs in the District	NIL
Collection centers established by Producers or their PROs	NIL
Nos. authorized E-Waste recyclers /Dismantler	NIL

(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	Inventorization of E-Waste in the District. Inventory of bulk waste generators is under process.	Completion of inventory	PPCB	31.03.2022
2.	E-Waste collection points	E-Waste collection points / call centres / kiosks MC Mandi Gobindgarh – 1/1 MC Amloh- 1/1 MC Sirhind- 1/1 MC Bassi Pathana- 1/1	Identification /registering E-Waste collection centres in association with Producers – their PROs or Recyclers	EOs of concerned ULBs and GMDIC	31.03.2022

		Khamanon- 1/1			
3.	Linkage among Stakeholders dechannelize-Waste	Linkage among Stakeholders is being done	Work under progress	MC/NP	31.03.2022
4.	Regulation of Illegal E-Waste recycling /dismantling	Not initiated	Surprise visits will be made to identify illegal e-waste recyclers / dismantlers	District Administration & PPCB	31.12.2022
5.	Integration of informal sector	Being done.	Being prepared.	District Administration & PPCB	31.03.2022
6.	Awareness and Education	Initiated	Special workshops and awareness campaigns through Producers / PROs is being carried out	District Administration & PPCB	Regular activity
7.	Identification of Producers who have not obtained, EPR Authorization (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Initiated	This is a continuous activity and will be followed.	SPCBs/ PCCs/Customer department	Regular activity
	Verification of quantity of e-waste collected by producers(Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Yet to initiate	This is a continuous Activity. All the EPR Authorized Producers will be verified.	PPCB	Regular activity
8.	Verification of systems provided by producers for collection and channelization of e-waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Yet to initiate.	This is a continuous activity. All the EPR authorized producers will be verified.	PPCB	Regular activity
9.	Verification of facilities of dismantlers and recyclers for their infrastructure and records. (Directions of Hon'ble NGT in	Yet to initiate.	This is a continuous activity. All the dismantlers/recyclers will be verified.	PPCB	Regular activity

	OA no. 512/2018 dated 15.01.2021)				
10.	Checking of informal trading, dismantling, and recycling of waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Yet to initiate.	Quarterly drive will be carried out checking of this activity.	District Administration/ PPCB	Regular activity
11.	Facilitate collection and disposal of e-waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Regular activity	Mechanism for collection and for incentivizing setting up of recycling facilities will be complied with.	District Administration/PPCB	Regular activity
12.	Governance framework for monitoring compliance. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Yet to initiate.	Regular Monitoring will be carried out to check the compliance.	District administration/PPCB.	Regular activity
13.	Capacity building at district level. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No gap	Workshops/seminars to educate functionaries is being organized on regular basis.	District Administration, PPCB & Local bodies.	Regular activity
14.	IEC plan be firmed up and executed. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No gap	IEC plan has been prepared by state and being implemented in all ULBs widely.	District Administration, PPCB & Local bodies.	Regular activity
15.	Strengthen system of enforcement. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No gap	Being carried out from time to time.	District Administration, PPCB & Local bodies	Regular activity
16.	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	State Government has already planned the focal points for industrial units. Proper space has been allocated to the existing and	PSIEC	Already done

			upcoming industrial unit for E waste dismantling and recycling facility.		
17.	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)	No gap	Recognition and registration of workers involved in dismantling and recycling and industrial skill development activities for the workers involved in dismantling and recycling will be done on regular basis	Labour Department	Regular Activity
18.	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	Will be Ensured on Annual basis.	Director of Factories	Regular Activity
19.	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)	Separate waste deposition centers for domestic E-waste	Department of Urban Development (ULBs): - No E-Waste deposition center has been established at any ULB.	EOs of concerned ULBs	MCs: - 31.12.2022 as same will be established with the secondary points and establishment of the compactor.

3. 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 :	1 Operated by PPCB

- Operated by Industry:	0
Number of manual monitoring Stations operated by SPCBs	10
Name of towns / cities which are failing to comply with national ambient air quality stations	4 nos
Nos. of air polluting industries	491
No. of unit installed APCD	491
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 = 26 Orange = 447 Green = 18 Total no. of units having valid consent as on 30.09.2021 Red = 16 Orange = 285 Green = 16 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, Road dust, Transport & Vehicular pollution and Burning of biomass.

(b) Identification of gaps and action plan:

Sn.	Action points	Gap & Indicative Action Plan	Responsible agency	Timeline for completion of action plan																												
1.	Identification of prominent air polluting sources?	<p>Following sources have been identified after carrying out source apportionment study: -</p> <table border="1"> <thead> <tr> <th>Sn.</th> <th>Source</th> <th>PM₁₀</th> <th>PM_{2.5}</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Industry</td> <td>15.86 %</td> <td>9.72 %</td> </tr> <tr> <td>2.</td> <td>Transport</td> <td>11.04 %</td> <td>13.12 %</td> </tr> <tr> <td>3.</td> <td>Road Dust</td> <td>48.14 %</td> <td>14.10 %</td> </tr> <tr> <td>4.</td> <td>Biomass</td> <td>20 %</td> <td>59 %</td> </tr> <tr> <td>5.</td> <td>Others</td> <td>1.78 %</td> <td>0.85 %</td> </tr> <tr> <td>6.</td> <td>Municip</td> <td>3.18 %</td> <td>3.21 %</td> </tr> </tbody> </table>	Sn.	Source	PM ₁₀	PM _{2.5}	1.	Industry	15.86 %	9.72 %	2.	Transport	11.04 %	13.12 %	3.	Road Dust	48.14 %	14.10 %	4.	Biomass	20 %	59 %	5.	Others	1.78 %	0.85 %	6.	Municip	3.18 %	3.21 %	EOs of concerned ULBs, PWD, Agriculture Department & PPCB	Activity Completed
Sn.	Source	PM ₁₀	PM _{2.5}																													
1.	Industry	15.86 %	9.72 %																													
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		al Solid waste burning											
2.	Ambient air quality data?	Ambient air quality is already being monitored. The annual average value of the year 2019 and 2020 is as under-	PPCB	Activity completed. Stations already working.									
		<table border="1"> <thead> <tr> <th>Sr. no.</th> <th>Year</th> <th>PM₁₀ (µg/m³)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>2019</td> <td>143</td> </tr> <tr> <td>2.</td> <td>2020</td> <td>105</td> </tr> </tbody> </table>	Sr. no.	Year	PM ₁₀ (µg/m ³)	1.	2019	143	2.	2020	105		
Sr. no.	Year	PM ₁₀ (µg/m ³)											
1.	2019	143											
2.	2020	105											
3.	Setting up of Continuous Ambient Air Quality Monitoring Station	1 CAAQMS already installed at Mandi Gobindgarh. Link is https://play.google.com/store/apps/details?id=com.cpcb	PPCB	Activity completed									
4.	District Level Action Plan for Air Pollution	Action plan to control air pollution already prepared and submitted to Hon'ble NGT. Link is https://ppcb.punjab.gov.in/en/action-plans	PPCB	Action Plan Already prepared and will be implemented.									
5.	Hotspots of air pollution in District	Under Process	PPCB	31-12-2021									
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	<ul style="list-style-type: none"> Total industries to be converted from coal to PNG = 237 Converted to PNG = 71 	PPCB/DIC	31-12-2021									
8.	Conversion of Natural Draft Brick Kilns to Induced Draft Brick Kilns	<ul style="list-style-type: none"> Total BKO required to convert to ZIG ZAG = 38 Converted to ZIG Zag Technology= 38 Yet not converted = 0 Direction issued u/s 31-A of Air Act, 1981 to DFSC to canceled the license of BKOs = 0 	PPCB/DFSC	Activity completed									
9.	Maintain pothole free roads / timely patchwork on roads	MC, Mandi Gobindgarh 5 Km road length has been identified as follows: (Arrey Mill Road 1.5 Km, Backside MC office, Mandi Gobindgarh-500 mtr., Under bridge road-1 Km, Road near ESI Hospital 1 Km & Radha Swami Satsang Bhawan Road- 1 Km)	MC, Mandi Gobindgarh and PWD	Regular activity									

		PWD (B&R) 9 Km of major road length has been identified (Nabha Gobindgarh road (SH-12A).		
10.	Procurement of Mechanical sweeping machines	Presently manual sweeping being done. -Identification of 7.5 Km roads has been done as below : (Arrey Mill Road1.5 Km, Jassran Road- 1 Km, Partap Mill Road300 mtr, Bank of India Road- 400 mtr, MC office Road- 300 mtr, Dharam Mill Road500 mtr, Talwara Road-1 Km, KotlaRoad- 500 mtr, Ram Nagar Mill Road- 500 mtr & Amloh Road 1.5 Km).	MC, Mandi Gobindgarh	Time Target: 31.12.2021
11.	Plantation of trees along highways, drains, Nallahs in colonies and canals etc.,	Identified 12 Kms of road sides for plantation as below: [Dharam Mill Road- 500 mtr, Master Colony Road- 500 mtr, Ram Nagar Mill Road- 1 Km, Talwara Road-1 Km, Bank of India Road- 500 mtr, Model Town area Road- 500 mtr, Ambey Majra Road- 4 Km, Ajnali Road- 2 Km and Slip Road along (NH-1)- 2 Km].	MC, Mandi Gobindgarh	Regular activity
12.	Greening of parks, open areas, community places, schools and housing societies	Identified 5 no. sites / open areas for plantation of trees: (Govt. Senior Secondary School for Boys, Govt. Senior Secondary School for Girls, Govt. Primary School, Ajnali, Govt. Primary School, AmbeyMajra and Primary School, Tarlokpuri) -11 nos of parks are being maintained by MC and Park Management Committees.	MC, Mandi Gobindgarh	Regular activity
13.	Kaccha/Brick Paved Roads to be made Pucca roads	Identified 25 Km of Kaccha roads for making pucca roads. (Ambey Majra Road- 3 Km, Ajnali Road- 3 Km, Jassran Road-3 Km, Kuchha shanti Nagar-7 Km, Iqbal Nagar- 3 Km, Sant Nagar- 2 Km, Sukha Singh Colony-3 Km and Talwara Road-1 Km)	MC, Mandi Gobindgarh	30.06.2022
14.	Existing roads requiring recarpeting	PSIEC Identified 9 kms of existing roads for re-carpeting.	PSIEC	Regular activity
15.	Public awareness campaign for control of vehicular emissions	The camps are being organized regular basis. Facebook, Twitter & Instagram) is also being used to spread traffic awareness. Quarterly camp will be organized for awareness.	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	Scheme under consideration.	Transport	-
19.	Promotion of E-Vehicles	The is being done on regular basis	Transport	Regular activity
20.	Infrastructure development for additional of CNG based autos/taxis	<ul style="list-style-type: none"> Total 10 CNG station has been commissioned out of total 14 station and 4 are under process. 	DFSC	31.03.2022
21.	Control of open burning of bio-mass.	DDLG Regular monitoring is being done in each ULB. Further, adequate no. of pits are constructed in each ULB to control the burning of bio mass.	EOs of concerned MCs.	Regular activity
22.	Dissemination of Air Quality Index by installing CAAQMS	One CAAQMS already installed in Mandi Gobindgarh city. The web link of the same is as under:- https://ppcb.punjab.gov.in/en/air-quality http://cpcb.nic.in/automatic-monitoring-data/	PPCB	Activity completed
23.	Dissemination of Air Quality Index by installing display boards in the city	One CAAQMS already installed in Mandi Gobindgarh city. Activity Completed. The web link of the same is as under:- https://ppcb.punjab.gov.in/en/air-quality http://cpcb.nic.in/automatic-monitoring-data/	PPCB	Activity completed
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	Head Office level Helpline number is 1800 120 3667 for whole of the state.	PPCB, Lab	Completed
26.	Scope for public participation on remedial measures like plantations. (Directions of Hon'ble NGT in OA	Fatehgarh Sahib Forest division has registered village forest Committees. Plantation and maintenance is being done by public participation mode.	Department of forest	Regular Activity

	no. 360/2018 dated 05.07.2021)			
27.	Carrying capacity and source apportionment study of non-attainment Cites.	Source apportionment study is under process. The complete data for source apportionment study have already been submitted to IIT Delhi.	PPCB	Source Apportionment Study is under process. Carrying Capacity = completed
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	Time target: 31.12.2021
29.	Steps to be taken for management of agriculture waste/residue	No. of agriculture implements provided for management of crop residue = 438 No. IEC activities like farmer training camps, Hoarding and field demonstrations are also being carried out to spread the awareness among farmers through the years.	Agriculture department	Seasonal Activity.

4. WATER QUALITY MANAGEMENT

(a) Water Quality Monitoring

- Current Status related to Water Quality Management

Details of Data Requirement	Present Status
Choe	Sirhind Choe
Nalas/ Drains/Creeks meeting Rivers	1
Lakes / Ponds	692
Total Quantity of sewage from towns and cities in District	39 MLD
Quantity of industrial wastewater	44 MLD
Percentage of untreated sewage	35 %
Details of bore wells and number of permissions given for extraction of groundwater	1020
Groundwater polluted areas if any	Dump site of MC, Sirhind, MC, Mandi Gobindgarh, MC, Bassi Pathana, MC, Amlon, Nagar Panchayat, Khamanon.
Polluted river stretches if any	No

• 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 inventory of water bodies has already been made by the concerned department. weblink: irrigation.punjab.gov.in	Drainage Deptt.	Regular activity
2.	Quality of water bodies in the district	The monitoring of drains is being carried out and data is being maintained. weblink: https://irrigation.punjab.gov.in/en	Department of Irrigation, DDPO and PPCB	Regular activity
3.	Hotspots of water contamination	Identified and given in the Sutlej Action Plan web link is https://ppcb.punjab.gov.in/en/action-plans	PPCB, all MCs and DDPO	Regular activity
4.	Protection of river / lake water front	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	MCs & D Department of urban development.	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	MCs, DDPO & Department of urban development	Activity Completed
6.	Oil spill disaster management (for coastal districts)	NA	NA	NA
7.	Protection of flood plains	NA	NA	NA
8.	Rejuvenation of groundwater	Action plan for Rain water harvesting has already been prepared by CGWA. weblink: cgwb.gov.in	CGWA	Regular Activity
9.	Complaints redressal system	Mobile App / Online Complaints redressal system already developed. weblink: publicgrievancepcb.gov.in	PPCB	Activity completed

(b) Domestic Sewage

- Identification of gaps and action plan for treatment of domestic sewage

Details of Data Requirement	Present Status
No of Class-II towns	4
No of Class-I towns	1
No of Towns STPs installed	1
No of Towns needing STPs	04 i.e. Amloh, Sirhind, Bassi Pathana and Khamanon.
No of ULBs having partial underground sewerage network	03
No of towns not having sewerage network	01
Total Quantity of Sewage generated in District for Class II cities and above	39 MLD
Quantity of treated sewage flowing into Rivers (directly or indirectly)	25 MLD
Quantity of untreated or partially treated sewage (directly or indirectly)	14 MLD
Quantity of sewage flowing into lakes	0
Total available Treatment Capacity	25 MLD

- 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)	<ul style="list-style-type: none"> • STP, Mandi Gobindgarh 25 MLD (Already commissioned) • STP, Bassi Pathan 3 MLD • STP, Sirhind 5 MLD • STP, Sirhind 3 MLD • STP, Sirhind 2 MLD • STP Amloh 3 MLD 	MCs, ADC (UD) and PWSSB	<ul style="list-style-type: none"> • STP, Bassi Pathan 3 MLD - 31-03-2022 • STP, Sirhind 5 MLD - 31-03-2022 • STP, Sirhind 3 MLD - 31-03-2022 • STP, Sirhind 2 MLD - 31-03-2022 • STP Amloh 3 MLD - 16/09/2022
2.	Underground sewerage network	Sewerage network is already being laid out in major town and cities. The percentage of sewerage	MCs, ADC (UD) & PWSSB	31.12.2021

		laid is as under; - (i) Amlah = 95% (ii) Sirhind = 80% (iii) Bassi Pathana = 95% (iv) Khamanon = 95%		
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3.	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	MC, Mandi Gobindgarh	MC, Mandi Gobindgarh
	(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 at STP Mandi Gobindgarh (25 MLD)	MC, Mandi Gobindgarh	Already Completed
4.	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. Total no. of villages where appropriate technology is required = 87 B. No. of village ponds for which appropriate technology finalized: 43 C. Time target for finalizing the appropriate technology for remaining village ponds: 31.12.2021	DDPO / EE, Panchayati Raj	31.12.2021
	(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: 87 B. No. of village ponds for which work has been completed: - 43	DDPO	31.03.2022

		C. No. of villages where work is under progress= 44 D. No. of villages where work is yet to be started = 50		
	(iii) Reuse of water for agriculture purpose in villages.	For 20 no. of village ponds, irrigation scheme has already been implemented. Work on villages (for 67 no. ponds) is under progress. Remaining will be implemented in due course of time.	DDPO, Soil conservation department.	31.12.2023
	(iv) Proper operation and maintenance of treatment facilities installed in village ponds	In 87 no. of village ponds, operation and maintenance of treatment facilities is being carried out. The work for remaining villages is under progress under the MGNREGA Scheme	DDPO & Xen Panchayati Raj	31.12.2025
5.	(i) Checking of health indices of the inhabitants & 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
6.	(i) Measurement of flow at different locations of River Sutlej & drains. (ii) To stop unauthorized discharge in the drains.	The flow is being monitored on monthly basis by the drainage department. The regular survey is being done by the concerned departments to stop unauthorized discharge in the drains	Department of water resources, Department of water resources, DDPO.	Regular activity Regular Activity
7.	Setting up of additional water bodies/water harvesting structures	Action plan for setting up of additional water bodies/water harvesting structure is yet to be prepared.	MCs/NPs	31.12.2022
8.	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	Being implemented as per guidelines framed by CPCB	PPCB	31.12.2022

	Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)			
9.	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)	Being implemented as per guidelines framed by CPCB. <ul style="list-style-type: none"> • Total no. of units: 39 • No. of units having installed ETP / STP: 8 Gap: 4	PPCB	31.12.2022
10.	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
11.	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)	All ULBs have inventory of Gaushala and Dairy farms available with them.	All Local Bodies	30.06.2022
12.	The local bodies/municipal corporations shall publish a public notice in newspapers and on their website for registration of dairy farms and gaushalas as per municipal law. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	The Public notice will be given in the Newspaper and on the website of local body for registration of dairy farms and gaushalas	All Local Bodies	Timeline for registration= 31.12.2022
13.	The District Collectors of all the Districts are directed to constitute monitoring committees to monitor the Extraction of Ground	Such Committees will be constituted	District Administration	31.12.2021

	Water by the individuals for commercial purposes. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)			
14.	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)	Noted for compliance and will be assured.	All local bodies & DDPO	Regular activity
15.	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" and 17 Blocks (11%) are in "Safe" category. The water level trends have been computed for last 10 years from 2009-2019 data	Water Resources (Ground water cum NHP wing) and PWRDA	Activity Completed
16.	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	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	Water Resources (Ground water cum NHP wing) and PWRDA	31.03.2022

	NGT in OA no. 176/2015 dated 20.07.2020)	December 2021.		
17.	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
18.	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)	A) Till date 43 ponds have been rejuvenated/restored B) Rest 44 will be restored upto 31.12.2024	DDPO	<ul style="list-style-type: none"> • 15 ponds: 31.12.2022 • 15 ponds: 31.12.2023 • 14 ponds: 31.12.2024
19.	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 run of water final reaches rivers, whether it comes through nallah or drain. This water ultimately is controllable at head works where certain pond level is 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
20.	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	Completed
21.	Land owning agencies must ensure that every water body has unique ID for its identification. There should be retagging of	L-section of all water bodies like drains concerned with Drainage Department has been approved and with name of drains and the Mapping of the Drainage	Drainage Department	Completed

	the water bodies to prevent encroachment. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	System has been done on google Sheet.		
22.	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
23.	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)	Directions being already followed.	GLADA/MCs/D eapartment of urban development	Regular Activity
24.	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)	Directions will be followed. Time line for Preparation of plan = 31.03.2022.	MCs, ADC (UD) & PWSSB	MCS Time line for Preparation of plan = 31.03.2022. Time line for implementation of plan = 31.03.2025. ADC(UD) & PWSSB Time line for Preparation of plan = 31.03.2022. Time line for implementation of plan = 30.09.2022.
25.	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
26.	Review of District Environmental Plan activities at different	The Activities of District Environmental Plan will be reviewed on monthly basis	District Heads of concerned departments	<ul style="list-style-type: none"> Monthly Meetings shall be taken by

	levels of District Heads and District Magistrate. (Directions of Hon'ble NGT in OA no. 360/2018 dated 05.07.2021)	by the District Heads and at the level of District Magistrate Fatehgarh Sahib.	and District Administration .	District Head of concerned department for the review of activities of this plan and nodal officer of concerned department will submit the reports to the District Environment Committee and PPCB on monthly basis. <ul style="list-style-type: none"> Monthly Meetings shall be taken by the District Administration along-with District Environment Committee.
27.	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	Completed
28.	Preparation of operational manual of STPs for the effective and efficient operation of the STPs of the state.	Manual is under preparation.	Department of Local Government	31.10.2021
29.	Enhancement of capacity of existing ponds/ water bodies and creating of new water harvesting structures.	A. Existing Ponds(Total) = 692 B. No. of Ponds whose Capacity has been enhanced = 20 C. New ponds = Nil Source of Funds above activities: Gram Panchayat Fund, Finance Commission, MGNrega.	DDPO	31.10.2023
30.	Usage of treated sewage for sprinkling purposes for sweeping of roads to control dust pollution.	Progress achieved: <ul style="list-style-type: none"> MCs: scheme under consideration DDLG: Being used for sprinkling purposes. 	MCs and DDLG.	Regular activity
31.	Mapping of the rivers and flood plain zones in the catchment area of rivers of the State.	The mapping has been done by the Drainage Department in an electronic file. The same can be retrieved from Goggle Earth link https://earth.google.com/web/@31.05081388,75 .	Drainage Department	Completed

		93504687,- 27664.5935166a,181476.440 66099d,35y,0.03480517h,45. 47133225t,0.0813r?utm_sou rce=earth7&utm_campaign= vine&hl=en		
32.	Utilization of STPs sludge	STP sludge is used by the farmers as manure.	MCs and DDLG	Regular activity
33.	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 = 30.04.2025
34.	The projects being developed for supply of canal water to the inhabitants of the cities/villages may be completed in a time bound manner.	Site has been identified; and yet to be acquired. Construction of WTP transmission lines up to OSHR will be completed in Phase 1 up to 2025. Budgetary Provision (i) Capital Cost is to be funded by World Bank and Punjab Govt. (ii) Operation & Maintenance Cost shall be borne by MC Ludhiana.	MCS	31.10.2025 DPR and RFP prepared and approved. (i) Floating of RFP – 31.12.2021 (ii) Construction of WTP, Laying of Transmission lines up to OSHRs and Construction of OHSRs will be completed in Phase 1 up to 2025.
35.	Reuse of treated effluent through existing STPs (OA no. 496/2016 dated 22.01.2021)	<ul style="list-style-type: none"> STPs where Irrigation schemes have been completed and working = Nil Irrigation schemes are yet to provided/work under process = 1 STP Mandi Gobindgarh (25 MLD): - work is in progress	Department of Soil conservation, ULBs/PWSSB	<ul style="list-style-type: none"> STP, Mandi Gobindgarh 25 MLD – 31/03/2022
36.	Reuse of treated effluent through proposed STPs (New STPs) (OA no. 496/2016 dated 22.01.2021)	<ul style="list-style-type: none"> STPs where Irrigation schemes have been completed and working = Nil 	Department of Soil Conservation	<ul style="list-style-type: none"> STP, Bassi Pathan 3 MLD - 30-09-2022 STP, Sirhind 5 MLD - 30-09-2022 STP, Sirhind 3 MLD - 30-09-2022 STP, Sirhind 2 MLD - 30-09-2022 STP Amloh 3 MLD - 31/03/2023

37.	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.	Total STP = 1 OCEMS Provided = 1	MCs, Mandi Gobindgarh and PWSSB	Activity completed
38.	Activity w.r.t. In-situ remediation technology to be provided in the drains carrying untreated sewage.	Proposal Yet to prepare	MCs/NPs	31.12.2022

5. INDUSTRIAL WASTE WATER MANAGEMENT

(a) Current Status related to Industrial Waste water Management

Number of Red, Orange, Green and White industries in the District	Red Category unit = 39, Orange Category unit = 630, Green Category unit = 130 and White Category unit = 2
No. of Industries discharging wastewater (generating trade effluent)	74 i. No. of industries installed captive ETP = 46, ii. No. of industries joined CETP = 28 iii. No. of industries joined Re-processor = 0
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 = 39 Orange = 630 Green = 125 Total no. of units having valid consent as on 30.09.2021 Red = 33 Orange = 449 Green = 102 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 waste water generated	44 MLD
Quantity of treated industrial wastewater discharged into Nalas / Rivers	NIL
Common Effluent Treatment Facilities	NIL
No. of Industries meeting Standards	It is a regular activity and PPCB is monitoring the industries including inspections and samplings. Around 10% units are randomly inspected per month.
No. of Industries not meeting discharge Standards	It is a regular activity and PPCB is monitoring the industries including inspections and samplings.

(b) Identification of gaps and action plan for industrial wastewater:

Sn	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	PPCB	Regular activity

		industries not meeting the standards.		
2.	Complaint redressal system	Online compliant system already developed and web link is https://connect.punjab.gov.in/grievance/save	PPCB	Activity complied
3.	Installation of Online Continuous Monitoring System by	Already installed and in operation.	PPCB	Already installed
	1. 17 categories of industries.	OCEMS already installed. Link is http://ppcbcems.nic.in/	PPCB	OCEMS installed
4.	Installation of Electromagnetic flow meters at inlet and outlet of ETP.	All 46 no. water polluting industries have already installed ETP along with EMF / Water meters at the outlet of their ETPs.	PPCB	Activity completed
5.	Inspection of units to check compliance	Inspection already being made	PPCB	Regular activity

6. MINING ACTIVITY MANAGEMENT PLAN

(a) Current Status related to Mining Activity Management

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	Nil for District Fatehgarh Sahib
No of licenced Mining operations in the District	
% Area covered under mining in the District	
Area of Sand Mining	
Area of sand Mining	

(b) Identification of gaps and action plan: **NIL**

7. 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 = Police and PPCB Nos. of analyzers required = 10 Nos. of analyzers available = 01 Timeline to arrange balance noise analyzers = 09 (By Police Department i.e. one meter to each SHO)

(b) Identification of gaps and action plan:

Sn.	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 = 10 Nos. of analyzers available = 01 Timeline to arrange balance noise analyzers = 09 (By Police Department i.e. one meter to each SHO) 	PPCB and Police Department	30.06.2022
2.	Ambient Noise Level monitoring	4 nos. ambient noise level monitoring stations are to be installed	PPCB	31.12.2022
3.	Signboards in Noise zones	55 no. Sign boards have been installed in noise sensitive zones. More sign boards will be installed	ULBs	30.04.2022
4.	Complaint redressing system	Public complaint redressal system already established in the district and web link is https://connect.punjab.gov.in/grievance/save	District Administration, Police Department and PPCB	30.04.2022
2.	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	Nodel Officer Name	Designation	Mobile no.	Email Id
1.	The Additional Commissioner (Urban Development), Ludhiana	Smt. Anuprita Johal, PCS	ADC (UD)	99141-03939	adcudldh@gmail.com
2.	Punjab Pollution Control Board	Sh. Rajeev Kumar Sharman	SEE, ZO-2	98789-50533	Ppcbzo2@ymail.com
3.	Regional Transport Authority, Patiala	Sh. Paramjit Singh	RTO	99146-44480	rtapatiala04@gmail.com
4.	Police Deptt.	Sh. Amneet Kondal, IPS	SSP	97791-78428	ssafgsahib@gmail.com
5.	Punjab Energy Development Agency (PEDA)	Sh. Suresh Kumar Goyel	Joint Director	94174-94900	dm.ludhiana@peda.gov.in
6.	Distt. Development and Panchayat Officer, Ludhiana (DDPO)	Sh. Surjit Singh Grewal	DDPO	98143-20514	ddpofgs@gmail.com
7.	District Soil Conservation Officer, Department of Soil & Water Conservation, Ludhiana	Miss. Navpreet Kaur	SCO	94635-03000	sdsco.dswc.fgs@punjab.gov.in
8.	Punjab Water Supply & Sewerage Board, Ludhiana	Sh. Sabjit Singh	Executive Engineer	97792-28223	pwssd2pta@gmail.com
9.	PWD (B&R), Ludhiana	Sh. Gourav Singh	Assistant Executive Engineer	98724-72745	eedsirhindpwdpb@gmail.com
10.	Department of Water Resources & Drainage, Ludhiana	Sh. Varun Garg	Assistant Executive Engineer	89688-85000	eedrainage@gmail.com
11.	Agriculture Department, Ludhiana	Sh. Damanjit Jhanji	Agriculture Development	95929-90237	caofgs.agri@punjab.gov.in

			ent Officer		
12.	Forest Department, Ludhiana	Sh. Amandeep Singh	Forest Range Officer	97807-70003	dfosasnagar@gmail.com
13.	PSIEC, Patiala	Sh. Parminder Singh	Executive Engineer	98146-87275	psiec_chd@yahoo.co.in
14.	District Food & Civil Supply Officer, DFSC, Fatehgarh Sahib	Ms. Roopreet Sidhu	DFSC	98760-72078	dfscfatehgarhsahib@gmail.com
15.	Education Department	DR. Charanjit Singh	DEO(Sr.)	88722-00166	generalseludhiana@punjabeducation.gov.in
16.	Health Department	Dr. Kuldeep Singh	SMO	98158-02655	nhmfgs@yahoo.com
17.	Animal Husbandry,	Dr. Gobinder Singh	Veterinary Officer, C.V.H. Kotli	9888286845	ddahludhiana@gmail.com
18.	Labour Department	Sh. S.S Gill	Joint Director	98148-35933	makhsingh@gmail.com
19.	Director of Factories	Sh. Mohit Singla	Deputy Director of Factories	97801-71847	Sukhmander65@gmail.com