DISTRICT ENVIRONMENT PLAN – PATIALA

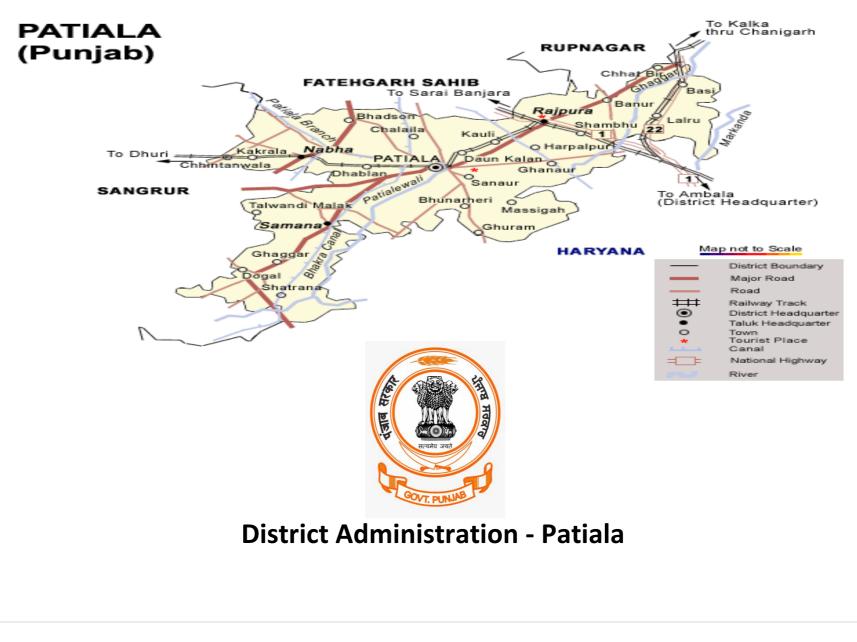


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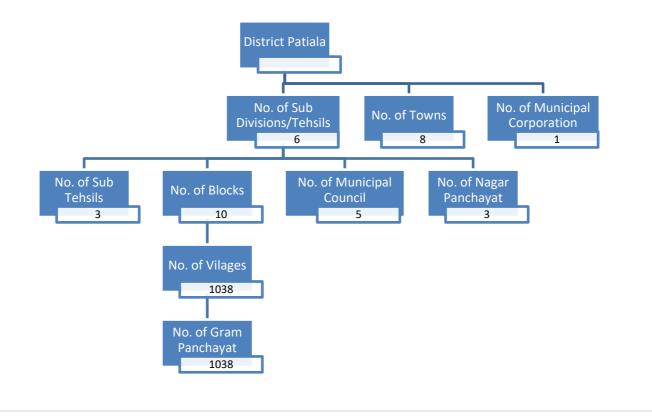
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1. DISTRICT PROFILE

Patiala district is one of the famous princely states of erstwhile Punjab. Forming the south-eastern part of the state, it lies between 29°49' and 30°47' north latitude, 75°58' and 76°54' east longitude. It is surrounded by the districts of Fatehgarh Sahib & Rupnagar and the Union Territory of Chandigarh in the north, Sangrur district in the west, Ambala and Kurukshetra districts of neighbouring state of Haryana in the east and Kaithal district of Haryana in the south. It is important city located in Malwa region of South Eastern part of Punjab. The city is well connected by roads and is located at a distance of about 75 km towards southwest from Chandigarh. It lies 25 km away from the Grand Trunk Road (i.e. National Highway-1) and is about 250 km from National Capital Delhi.

(i) District Administrative Set-up



(ii) Local Institutions

In District Patiala, there are total 6 Sub-Divisions/Tehsils, 8 towns & 01 Municipal Corporation. There are 3 Sub-Tehsil, 10 Blocks, 05 Municipal Council and 3 Nagar Panchayat. There are total 1038 Villages in the District & have 1038 Gram Panchayats.

(iii) Natural Resources

Water bodies

• River Ghaggar

River Ghaggar is passing through Patiala District. River Ghaggar originates from Sirmour Hills in Himachal Pradesh, flows through the Morni Hills in Haryana. Enters into the State of Punjab near Village Mubarakpur, Distt.Mohali. After passing through District Mohali, District Patiala and District Sangrur, it passes through State of Haryana and then enters into District Mansa of Punjab. 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 village situated along the river Ghaggar and other drains is also discharged into the river directly or indirectly through drains/choe etc.

The River Ghaggar enters the District Patiala near Chatbir Zoo passing through the part of Rajpura, Shamboo, Ghanaur, Devigarh, Samana, Patran and leaves the District Patiala near Khanauri. The main drains meeting with River Ghaggar in District Patiala are Pachisdara drain near village Sarala, Mirapur Choe near Village Bhunerheri, Patiala Nadi near Village Rattanheri and Sagarpara drain near Village Sagra.

The details of the major drains passing through District Patiala and meeting with River Ghaggar are as under:-

• Paschisdara Drain

This drain is coming from District Mohali enters in District Patiala near Dhakansu and meets with River Ghaggar near Village Sarala Khurdat the coordinates 30.305197 and 76.627918. The outlet of STP Rajpura (7 MLD) falls into this drain at Rajpura - Ambala Road before meeting with river Ghaggar.

• Patiala Nadi

This nadi originates in District Fatehgarh Sahib near Balongi, Mohali, where, it is known as Patiala-Ki-Rao. The sewage/ sullage of village Bras, Cholti Kheri, Chawla Hotel, Behlolpur, Panjoli Khurd, Panjoli Kalan, Panjola, Mullanpur, Behtana, Jhinjra, Jago falls in Patiala-Ki-Rao. However, the quantity of sewage/ sullage of these villages is quite less and the Nadi is almost dry when it passes on the backside of Focal Point, Patiala. It has 2 no. outlets of Urban Estate, Patiala at the crossing of Patiala-Rajpura Road followed by outlet discharging untreated sewage of Sanaur. The Choti Nadi which carries untreated sewage of residential areas of Patiala joins Patiala Nadi behind Moti Mahal area.

• Sirhind Choe

This drain enters in Patiala from Distt. Fatehgarh Sahib and the Nabha drain, which carries sewage / sullage of Nabha & Bhadson Town and MES, Nabha falls in this drain in District Sangrur.

• Sagarpara Drain

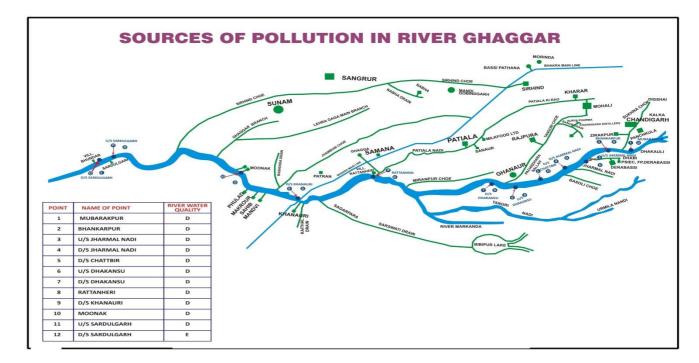
This drain enters in District Patiala from Haryana and meets with Ghaggar near Village Sagra (29.8975741, 76.169735). No wastewater of District Patiala discharges in the said drain and the drain carries wastewater of Haryana State.

• Other drains

A drain passing through Patiala city and carrying untreated sewage of the city passes through the Village Main area, where it is called Jacob drain. In jacob drain, there are outlets of the sewage/ sullage of Bir Colony, village Shermajra, Khusropur Basti and treated sewage from STP of 46 MTD capacity before Village Main. In Jacob drain, the sewage/ sullage of Vill. Main, Vill. Daroula & Darouli is also being discharged. This Jacob drain joins Patiala Nadi at Village Dharouli. Patiala Nadi carrying all these effluents joins river Ghaggar near Village Rattanheri (30.078934, 76.243909). A drain called Model Town drain carrying sewage/ sullage of Village Hassanpur, Seona, Ranjit Nagar (Village Seona), Kabir Dass Nagar, Ranjit Nagar (Bhadson Road), Sarabha Nagar (2 no. outlets) Vill. Ablowal, Babu Singh Colony, Yadwindra Enclave, Village Dhamomajra (2 no. outlets), Mallomajra, Bhakra Enclave (Sangrur Road), Hajimajra joins jacob drain near Vill. Main.

The identification of various pollution sources of pollution including sullage/sewage of villages, sewage of towns, industrial sources and any other source and mapping of the pollution source in River Ghaggar was carried out by Punjab Pollution Control Board.

The map of River Ghaggar showing the water quality at various points. The water quality of river Ghaggar at the entry point in District Patiala at Chatbir as well as leaving District Patiala at Khanauri is D, which means the water qualifies for best use for propagation for wildlife and fisheries as per criteria prescribed by CPCB.



• Availability of water resources

The major source is ground water. However as per CGWA report, the ground water development in 5 blocks of the District has been categorized as over exploited and 3 blocks i.e. Patran, Sanaur & Patiala has been categorized as notified block. The net annual ground water availability of District is 137193ham.

• Forest coverage

The Detail of Forest area of District Patiala is as under:

Sr. no.	Category of area	Ownership	Area in Ha
1.	Protected Forest	Govt., of Punjab	2287.73
2.	Un-classed Forest	Govt., of Punjab	294.22
3.	3. Reserve Forests NIL		NIL
Total Blo	ock Forest		2581.95
Strips Fo	rest (Protected Forest)		·
4.	Road Strips (P.F)	Govt., of Punjab	3864.49
5.	Railway Strips (P.F)	Govt., of Punjab	510.6
6.	Canal Strips (P.F.)	Govt. of Punjab	3286.91
7.	Drain (P.F.)	810.85	
Total Str	ips Forest (Protected Forest)	8472.85	
Total For	rest Area	11054.8	

(iv) Geography & Demography

Sr. No.	Title	District Patiala	Punjab State
1)	Area (Sq Km)	3,222	50,362
2)	Population (in Lakh)	18.96	277.04

Sr. No.	Title	District Patiala	Punjab State
3)	Rural Population (in Lakh)	10.57	173.2
4)	Urban Population (In Lakh)	7.5	103.84
5)	% Increase in Population (2001-2011) Decinneal Growth rate	19.6	13.55
6)	Density of Population (per Sq km)	589	550
7)	Literacy %	75.3	76.7
8)	Sex Ration (Females per thousand)	891	893

The total area of District Patiala is 3222 km having population 18.96 lakhs. The rural population of District Patiala is 10.57 lakh and urban population of District Patiala is 7.75 Lakh. The literacy rate of District Patiala is 75.3.

(v) Land-use pattern

Sr. No.	Title	Data of District Patiala (2020-21)
1)	Total Geographical Area (in Ha)	322299
2)	Area under Forest (in Ha)	12414
3)	Net Area Sown (In Ha)	2,57,893
4)	Gross Cropped Area (in Ha)	5,13,789
5)	Total Area irrigated (in Ha)	2,57,425
6)	% of Net Area irrigated to Total area sown	99.81%

The total Geographical Area of District Patiala is 322299 km. The Net area sown is 2,57,893hectare & irrigated is 2,57,425 hectare. The gross cropped area is 5,13,789of District Patiala as per financial year 2020-21. The total reserved forest area of district Patiala is Nil.

(vi) Climate

Patiala's climate is classified as warm and temperate. In winter, there is much less rainfall than in summer. This climate is considered to be Cwa according to the Köppen-Geiger climate classification. The average annual temperature is 23.7 °C | 74.6 °F in Patiala. In a year, the rainfall is 934 mm | 36.8 inch. The yearly data of climate of district Patiala is as under:-

1												(
	January	February	March	April	Мау	June	July	August	September	October	November	December
Avg.	12.2 °C	15.5 °C	21 °C	27.8 °C	31.8 °C	32.2 °C	29.5 °C	28.3 °C	27.2 °C	24.5 °C	19.5 °C	14.2 °C
Temperature	(54)	(59.9)	(69.8)	(82)	(89.2)	(90) °F	(85)	(83)	(81)	(76.1)	(67.1)	(57.6)
°C (°F)	°F	°F	°F	°F	°F		°F	°F	°F	°F	°F	°F
Min.	7 °C	9.6 °C	14 °C	19.6 °C	23.9 °C	26.3 °C	26 °C	25.3 °C	23.1 °C	18.1 °C	13.1 °C	8.4 °C
Temperature	(44.5)	(49.3)	(57.2)	(67.4)	(75) °F	(79.3)	(78.7)	(77.5)	(73.6)	(64.6)	(55.7)	(47.1)
°C (°F)	°F	°F	°F	°F		°F	°F	°F	°F	°F	°F	°F
Max.	18.3 °C	21.8 °C	28.1 °C	35.5 °C	39.1 °C	37.9 °C	33.5 °C	32.1 °C	31.8 °C	31.3 °C	26.7 °C	21 °C
Temperature	(65)	(71.2)	(82.6)	(95.9)	(102.4)	(100.3)	(92.2)	(89.8)	(89.2)	(88.3)	(80) °F	(69.8)
°C (°F)	°F	°F	°F	°F	°F	°F	°F	°F	°F	°F		°F
Precipitation	43	58	46	28	33	95	240	228	117	22	6	18
/ Rainfall mm (in)	(1.7)	(2.3)	(1.8)	(1.1)	(1.3)	(3.7)	(9.4)	(9)	(4.6)	(0.9)	(0.2)	(0.7)
Humidity(%)	76%	68%	54%	32%	32%	48%	76%	82%	77%	58%	57%	68%
Rainy days (d)	3	4	4	4	6	9	17	17	9	2	1	1
avg. Sun hours (hours)	7.5	9.2	10.5	11.5	12.2	11.7	9.8	9.5	9.5	10.1	9.4	8.3

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	Solid Waste Generated (MT per day)
1.	Patiala (M Corp)	60	97918	489590	135
2.	Rajpura (MC)	31	25000	92301	26
3.	Nabha (MC)	23	13624	67972	25
4.	Samana (MC)	21	13016	54072	13
5.	Patran (MC)	17	6597	27963	7
6.	Sanaur (MC)	15	5200	26000	5
7.	Ghagga (NP)	13	1908	10162	2
8.	Ghanaur (NP)	11	1414	6987	0.7
9.	Bhadson (NP)	11	1480	7260	1
	Total	202	166157	782307	214.7

ör. Io.	Local Bodies	No of Village Panchayats /Blocks	No of Households	Population	Solid Waste Generated per day (MT)
1.	No of Villages Panchayats	1038/ 10	241661	1208308	332

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(b) Identification of gaps and Acton plan:

Sr. 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 Patiala	According to previous survey report,100%source segregation was achieved. but certain pockets of city have fallen back into old habits of mixing waste. Hence, there is a fresh gap of approx 10% in source segregation.		Hari Bhari Recyclable Pvt Ltd Patiala	31-03-2022
II.	Municipal Council Rajpura	88 % segregation achieved.	Required infrastructure has been put in place, Only Door to door awareness regarding source segregation and home composting is being done to achieve target.	EO Rajpura	30.11.2021
111.	Municipal Council Nabha	55 % segregation achieved	Being processing facility is located far away from one major part of city, which led to non-sustaining of source segregation. MC Nabha has processed tender to purchase 6 e- tippers and 3 TATA Ace to overcome this problem. Further, a mechanical composter has also be purchased to achieve the target within timelines.		31.12.2021
IV.	Municipal Council Samana	70 % segregation achieved	Door to door awareness & regular follow up is going on, Fund and infrastructure available.	EO Samana	30.11.2021

Sr. No.	Action points For villages /blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
V.	Municipal Council Patran	70 % segregation achieved	Composter has been purchased recently, 47 Rickshaw and 4 Tata Ace are put in place. Infrastructure is available. Door to door awareness & regular follow up is going on.	EO Patran	30.11.2021
VI.	Municipal Council Sanaur	68 % segregation achieved	Door to door awareness & regular follow up is going on, Fund and infrastructure available.	EO Sanour	30.11.2021
VII.	Nagar Panchayat Ghagga	75 % segregation achieved	Being processing facility is located far away from one major part of city, which led to non-sustaining of source segregation. NP Ghagga has now purchased One tata Ace to overcome this problem.	EO Ghagga	30.11.2021
VIII.	Nagar Panchayat Ghanaur	95 % segregation achieved	Door to door awareness & regular follow up is going on, Fund and infrastructure available.	EO Ghanour	31.10.2021
IX.	Nagar Panchayat Bhadson	100 % segregation achieved No Gap	Door to door awareness & regular follow up is going on, Funds and infrastructure available.	EO Bhadson	NA
Х.	Villages Panchayat (1038)	Segregation not being done in maximum villages.	Yet to prepare.	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 30.06.22 = 122 GPs By 30.06.23 = 135 GPs By 30.06.23 = 135 GPs By 31.12.23 = 139 GPs

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					By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
2.	Sweeping				
(i)	Manual Sweeping				
I.	Municipal Corporati Patiala	on 100% sweeping being done by 954 sweepers	Proper checking & ensuring the compliance to prevent any lapse.	МСР	Regular Activity and is being complied with.
II.	Municipal Coun Rajpura	cil 100% sweeping being done, no gap	Daily sweeping	EO Rajpura	Regular Activity and is being complied with.
III.	Municipal Coun Nabha	cil 100% sweeping being done, no gap	Daily sweeping	EO Nabha	Regular Activity and is being complied with.
IV.	Municipal Coun Samana	cil 100% sweeping being done, no gap	Daily sweeping	EO Samana	Regular Activity and is being complied with.
V.	Municipal Coun Patran	cil 100% sweeping being done, no gap	Daily sweeping	EO Patran	Regular Activity and is being complied with.
VI.	Municipal Coun Sanaur	cil 100% sweeping being done, no gap	Daily sweeping	EO Sanour	Regular Activity and is being complied with.
VII.	Nagar Panchay Ghagga	rat 100% sweeping being done, no gap	Daily sweeping	EO Ghagga	Regular Activity and is being complied with.
VIII.	Nagar Panchay Ghanaur	rat 100% sweeping being done, no gap	Daily sweeping	EO Ghanour	Regular Activity and is being complied with.
IX.	Nagar Panchay Bhadson	rat 100% sweeping being done, no gap	Daily sweeping	EO Bhadson	Regular Activity and is being complied with.
x.	Villages Panchay (1038)	rat 25% sweeping being done. 75% road is not Covered.	More manpower is being deployed.	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs

r. No.	Action points For villages /blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
(ii)	Mechanical Road Sweepi	ng and Collection			
(i)	МСР	2 Mechanical Sweeping Machines required.	Funds requested from National Clean Air Programme.	МСР	31.12.2021
(ii)	M.C. Rajpura	Already operating mechanical sweeping machine. No extra machine is required. Hence, No gap.	Daily Sweeping	EO Rajpura	Activity Completed.
	Rest of the ULBs in Distri		manual sweeping is sufficient to con	ntrol dust emissi	ons generated from the roads,
	hence, no mechanical swe		1 0		
3	Waste Collection	· ·			
(i)	100% collection of solid waste	Waste Collection in MCP and Municipal Councils/ Nagar Panchayats is 100 % i.e. no gap.	At Present Door to door collection is being done both by formal & informal Sector 100 % waste collection is being done. Efforts are being made to keep the waste collection at 100 %.	MCP and Department of Urban Development	Regular Activity and is being complied with.
		Villages Arrangements are to be provided in villages panchayats (1038) = Not adequate arrangements			Villages Panchayats (1038) = Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
(ii)	Arrangement for door to door collection	 MCP:- 200 Rickshaw Rehri, 56 Motorized vehicle and 350 waste pickers. 	MCP:- For door to door collection the agreement with Hari Bhari Recyclable Pvt Ltd	MCP: Hari Bhari Recyclable	

Patiala has already been made. Pvt Ltd
• M.C. Rajpura: - One • M.C. Rajpura:-To ensure Patiala. MC Rajpura : Purchase of
 hundred and ninteen Rickshaw Rehris, 7 tractors trollies have been placed for Door to Door Collection. To ensure effective Door to Door segregated collection, 150 more effective Door to Door to Door more Rickshaw Rehris are to be purchased. EOs of respective ULBs EOs of respective ULBs
Rickshaw Rehris are to be purchased. • Municipal Council Nabha: MC Nabha:
 .Municipal Council Nabha:- Sixty four Rickshaw Rehris have been purchased, Apart from One ULB owned Tractor Trolly , 5 Tractor Trollies are arranged on outsource basis. Apart from these , 3 Tata Ace and 6 e.rickshaw yet required Municipal Council Nabha: Being processing facility is located far away from one major part of city, which led to non-sustaining of source segregation. MC Nabha has processed tender on to purchase 6 e rickshaws and 3 e.rickshaw yet required MC Nabha : Purchase of Tata Ace and e.rickshaw 31.12.2021
 Municipal Council problem. Samana:- Fifty Rickshaw Rehris and 8 tata Ace have been purchased for Door to Door Collection. Rest of the ULBs have made sufficient arrangements for door to door collection.
 Municipal Council Patran:- Fourty Rickshaw Rehris and 4 tata Ace have been purchased for Door to Door Collection.
 Municipal Council, Sanaur:- Twenty Seven Rickshaw Rehris have been purchased for Door to Door Collection. Nagar Panchayat Ghagga:-

		 Thirteen Rickshaw Rehris and 1 tata Ace have been purchased for Door to Door Collection. Nagar Panchayat Ghanaur:- Twelve Rickshaw Rehris have been purchased for Door to Door Collection. Nagar Panchayat Bhadson:- Twelve Rickshaw Rehris, Two Tata ACE, have been purchased for Door to Door Collection. Thus, no gap in door to door collection for all the ULBs. 	• Villages Panchayats (1038) =		Villages Panchayats (1038) =
		Panchayats (1038) = Not adequate	Transport and waste transfer points are being arranged. Action plan is yet to be prepared for arrangements of D to D collection		Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
(iii)	Waste Collection trolleys with separate Compartments	 MCP : 4 tractor trolleys available with separate compartments. No Gap MC Rajpura : Required 07 Available 07 MC Nabha Required 06 Available 06 	Efforts are being made to keep on100 % waste collection.	 MCP: Hari Bhari Recyclable Pvt Ltd Patiala. EOs of respective 	Activity Completed

		•	NP Bhadson : Required 01		ULBs	
			Available 01			
		•	NP Ghagga : Required 01			
			Available 01			
			NP Ghanaur : Required 0			
		_	Available 0			
			MC Patran : Required 03			
			Available 03			
			MC Samana : Required 05			
		•	Available 05			
			MC Sanaur : Required 03			
		•	Available 03			
			Available 05			
			Villages Panchayats			Villages Panchayats (1038) =
		•	Villages Panchayats (1038) = Not adequate	Villages Panchayats (1038) =		 Time target for arrangir
			(1030) – Not adequate	 Total no. compartment wise 		vehicles. = 30.06.2025
				solid Waste Collection		By 30.06.22 = 596 Vehicles
				trolleys/rikshaws required =		By 31.12.22 = 596 Vehicles
				4175		By 30.06.23 = 596 Vehicles
						By 31.12.23 = 596 Vehicles
						By 30.06.24 = 596 Vehicles
						By 31.12.24 = 596 Vehicles
						By 30.06.25 = 599 Vehicles
						Source of fund. = State Level
(iv)	Mini Collection Trucks	•	MCP : 5 Mini collection	• Mini Trucks are regularly	• MCP: Hari	Activity completed
· /	with separate		trucks available i.e. 3 for	being used for	Bhari	, ,
	compartments		wet waste and 2 for dry	transportation of solid	Recyclable	
			waste.	waste.	Pvt Ltd	
					Patiala.	
					• EOs of	
		•	MC Samana Required 08		respective	
			Available 08		ULBs	
		•	Patran: Required 04		• DDPO	
			Available 04			
		•	Ghagga Required 01			
			Available 01			

(v)	Wasta Don	osition contor	 Bhadson: Required 02 Available 02 MC/NP Rajpura, Ghanaur, Sanaur and Nabha do not require Mini Trucks. Villages Panchayats (1038) = Not Required s (WDC) (for domestic hazardou 	the Village Panchayats with the help of trolleys and Rickshaw with separate compartment.		Not Applicable
	-				LLL 2 DLL 2	
I.	Patiala	Corporation	Required = 7 Installed = 7	At Present 7 centers are installed to collect domestic hazardous waste at 7 MRF centers. Proper checking & ensuring to prevent any lapse.	Hari Bhari Recyclable Pvt Ltd Patiala	Activity Completed
II.	Municipal Rajpura	Council	Required = 1 Installed = 1	Waste deposition centre is operated efficiently.	EO Rajpura	Activity Completed
III.	Municipal Nabha	Council	Required = 1 Installed = 1	Waste deposition centre is operated efficiently.	EO Nabha	Activity Completed
IV.	Municipal Samana	Council	Required = 1 Installed = 1	Waste deposition centre is operated efficiently.	EO Samana	Activity Completed
V.	Municipal Patran	Council	Required = 1 Installed = 1	Waste deposition centre is operated efficiently.	EO Patran	Activity Completed
VI.	Municipal Sanaur	Council	Required = 1 Installed = 1	Waste deposition centre is operated efficiently.	EO Sanour	Activity Completed
VII.	Nagar Ghagga	Panchayat	Required = 1 Installed = 1	Waste deposition centre is operated efficiently.	EO Ghagga	Activity Completed
VIII.	Nagar Ghanaur	Panchayat	Required = 1 Installed = 1	Waste deposition centre is operated efficiently.	EO Ghanour	Activity Completed
IX.	Nagar Bhadson	Panchayat	Required = 1 Installed = 1	Waste deposition centre is operated efficiently.	EO Bhadson	Activity Completed
Х.	Villages (1038)	Panchayat	Required=1038 Installed=0	Action plan is yet to be prepared along-with solid Waste Management.	DDPO& XEN Panchayati Raj	Villages Panchayats (1038) = Preparation of action plan 31.03.2022

4	Waste Transport				Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 = 139 GPs By 30.06.24 = 146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
(i)	Review existing infrastructure	 MCP- 5 trucks, 200 rickshaw rehri, 56 tata ace are available for transport and these vehicles are sufficient as per requirement. Hence there is no gap between requirement and availability. Bhadson Required Vehicles: 15 Available vehicles: 15. Rajpura: Required Vehicles: 276 Available 126. (Gap 150 Rickshaw Rehris) Nabha Required Vehicles: 79 Available 70. (Gap 6 e.Rickshaws and 3 Tata Ace) 	 MC Rajpura: To ensure effective Door to Door segregated/collection, 150 Rickshaw Rehris to be purchased. MC Nabha:-Being processing facility is located far away from one major part of city, which led to non-sustaining of source segregation. MC Nabha has processed tender to purchase 6 e rickshaw and 	 MCP – Zonta Infratech Private Limited Patiala EOs of respective ULBs 	• MC Rajpura – 31.12.2021 • MC Nabha – 31.12.2021

			problem.		
		 Samana : Required Vehicles: 63 Available vehicles: 63. Patran: Required Vehicles: 47 Available vehicles: 47. Sanaur: Required Vehicles: 30 Available 			
		vehicles: 30. • Ghagga: Required Vehicles: 15 Available vehicles: 15. • Ghanaur: Required Vehicles: 12 Available vehicles: 12.			
(ii)	Bulk Waste Trucks	MCP: 5 trucks available for transport. No Gap All the other ULBs do not require bulk waste truck.	To ensure optimum utilization of bulk waste trucks.	 MCP – Zonta Infratech Private Limited Patiala EOs of respective ULBs 	Activity Completed
(iii)	Waste Transfer points	 MCP: 37 semi underground bin sites used as waste transfer points. 5 are compactor sites 13 semi underground sites are being identified for 40 more bins. Walls around them will also not be required since they will be underground sites 	 MCP: 40 Bins to be Procured for 13 more sites, which are being identified. 	• MCP	MCP:- 31.10.2022

		 MC Rajpura: 0 MC Nabha: 10 MC Patran: 01 MC Samana: 5 MC Sanaur: 02 MC Ghagga:0 MC Bhadson:0 NP Ghanaur: 0 	Efforts are being made at Nabha, Patran, Samana & Sanour to transfer the waste directly to the MRF and bio- remediation sites.	• EOs of respective ULBs.	31.10.2022
		• Villages Panchayat (1038)	 Action plan is yet to be prepared along-with solid Waste Management. 	DDPO & XEN Panchayati Raj	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
5	Waste Treatment and Dis	sposal			
	Wet-waste Management: On-site composting by bulk waste generators (Authority may decide on requirement as per Rules).	 MCP: 15 BWG are identified 15 compost pits are available for processing of wet waste. MC Rajpura BWGs identified 12 & onsite composting 12 Bhadson: identified 01 & onsite composting 01 Patran: : identified 01 & onsite composting 01 Samana: : identified 09 & onsite composting 09 Sanaur: : identified 07 & onsite composting 07 		• MCP • EOs of respective ULBs	• MC Patiala :- Regular Activity

			• Nabha: : identified 09 & onsite composting Nil	• MC Nabha is pursuing the generators for compliance.		• MC Nabha:- 31.12.2021
			• Ghanaur identified 01 &	generators for compliance.		
			onsite composting 01			
			• No BWG identified at			
			Ghagga			
(ii)	Wet-waste	e Management	: Facilities for central Bio-metha	nation/ Composting of wets waste	•	
I.	Municipal Patiala	Corporation	535 Compost pits constructed. functional and	Efficient operation of the compost pits is being ensured.	MCP	Activity completed
II.	Municipal Rajpura	Council	adequate 150 Compost pits provided. functional and adequate	Efficient operation of the compost pits is being ensured.	EO Rajpura	Activity Completed
III.	Municipal Nabha	Council	73 Compost Pits Provided functional and One mechanical composter is placed.	Efficient operation of the compost pits and Mechanical Composter is being ensured.	EO Nabha	Activity Completed
IV.	Municipal Samana	Council	65 Compost pits Constructed and functional and adequate	Efficient operation of the compost pits is being ensured.	EO Samana	Activity Completed
V.	Municipal Patran	Council	8 Compost pits provided and One mechanical composter is placed.	Efficient operation of the compost pits and Mechanical Composter is being ensured.	EO Patran	Activity Completed
VI.	Municipal Sanaur	Council,	25 Compost pits are constructed and are adequate and functional as per norms.	Efficient operation of the compost pits is being ensured.	EO Sanour	Activity Completed
VII.	Nagar Ghagga	Panchayat	15 Compost pits provided. functional and are adequate	Efficient operation of the compost pits is being ensured.	EO Ghagga	Activity Completed
VIII.	Nagar Ghanaur	Panchayat	12 Compost pits Constructed and are adequate	Efficient operation of the compost pits is being ensured.	EO Ghanour	Activity Completed
IX.	Nagar Bhadson	Panchayat	24 Compost pits provided. functional and are adequate	Efficient operation of the compost pits is being ensured.	EO Bhadson	Activity Completed
Х.	Villages (1038)	Panchayat	Not Available	Plan yet to be prepared	DDPO	Preparation of action plan 31.03.2022 Implementation br
						Implementation b 30.06.2025

					By 30.06.22 = 105 GPs
					By 31.12.22 = 122 GPs
					By 30.06.23 = 135 GPs
					By 31.12.23 =139 GPs
					By 30.06.24 =146 GPs
					By 31.12.24 = 180 GPs
					By 30.06.25 = 211 GPs
(iii)	Dry-Waste	• MCP: 15 BWG are		• MCP	Activity completed for MCP
	Management: Material	identified and having		• EOs of	and other remaining ULBs
	Recovery for dry-waste	agreement with M/s Hari		respective	except Nabha
	fraction	Bhari for disposal of dry-		ULBs	
		waste. Therefore, no gap.			
		• Rajpura : BWGs identified			
		12 & all are having			
		agreement with MC,			
		Rajpura			
		• Bhadson : identified 01			
		BWG & having agreement			
		with authorized recycler for			
		dry waste			
		• Patran: : identified 01 BWG			
		& having agreement with			
		authorized recycler for dry			
		waste			
		• Samana: : BWGs identified			
		9 & all are having			
		agreement with MC,			
		Samana			
		• Sanaur: : BWGs identified 7			
		& all are having agreement			
		with MC, Sanaur			
		• Nabha: : identified 09 & yet	MC Nabha is pursuing the		MC Nabha : 31.12.2021
		to make agreement with	generators for compliance		
		the MC/ authorized			
		recycler			
				l	

 Ghanaur identified 01 & having agreement with authorized recycler for dry waste No BWG identified at Ghagga MCP:- 7 MRF Centers are available for dry waste management in MCP. MRFs are sufficient as per the requirement there is no gap between requirement and 		• MCP • EOs of respective ULBs	
availability.	MC Nabha, and NP Ghanour - The matter is being pursued with the competent authority.		MC Nabha and NP Ghanour – 31.12.2021.
All the MCs/NPs have constructed adequate no. of MRF centers except MC Nabha and NP Ghanaur having a Gap of 01 MRF each.			
Villages Panchayat (1038) - Not Adequate	Plan yet to be prepared	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025

					By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs=
(iv)	Disposal of inert and non-recyclable wastes: Sanitary Landfill	• MCs Samana and Rajpura SLF Constructed,	Efforts are being made by remaining MCs / NPs to complete the construction of the SLF at the earliest.	 MCP EOs of respective ULBs 	MC, Nabha : 31.01.2022 and remaining MCs / NPs 30.11.2021
(v)	Remediation of historic /	legacy dumpsite	1		•
i.	Municipal Corporation Patiala	132000 ton waste is being remediated out of 176000 ton.	Trommels machines are installed for remediation of legacy waste and work is under process.	МСР	31.05.2022
ii.	Municipal Council Rajpura	Total legacy waste = 12000 MT Waste Remediated = 8000 MT Gap = 4000 MT	Efforts are being made to complete the remediation work at the earliest.	EO, Rajpura	31.03.2022
iii.	Municipal Council Nabha	The ULB has started remediation work for its legacy waste. Total legacy waste = 12000 MT Just Started Gap = 12000 MT	MC Nabha already installed machinery at dump site for remediation and work is in progress. Electricity connection has been also be provided by PSPCL.	EO, Nabha	30.06.2022
iv.	Municipal Council Samana	Total legacy waste = 6000 MT Waste Remediated = 4500 MT	Efforts are being made to complete the remediation work at the earliest.	EO, Samana	31.03.2022

			Gap = 1500 MT Remediation is under progress			
v.	Municipal Patran	Council	Total legacy waste = 1750 MT Waste Remediated = 400 MT Gap = 1350 MT Remediation is under progress	Efforts are being made to complete the remediation work at the earliest.	EO, Patran	31.03.2022
vi.	Municipal Sanaur	Council,	The ULB is yet to start remediation work for its legacy waste. Total legacy waste = 550 MT Gap = 100 %	MC Sanaur has already installed machinery at dump site for remediation and work is in progress. Electricity connection has been provided by PSPCL.	EO, Sanour	31.03.2022
vii.	Nagar Ghagga	Panchayat	Total legacy waste = 1650 MT Waste Remediated = 350 MT Gap = 1300 MT	Efforts are being made to complete the remediation work at the earliest.	EO, Ghagga	31.03.2022
viii.	Nagar Ghanaur	Panchayat	Total legacy waste = 200 MT Waste Remediated = 140 MT	Efforts are being made to complete the remediation work at the earliest.	EO, Ghanour	31.03.2022
ix.	Nagar Bhadson	Panchayat	Total legacy waste = 200 MT Waste Remediated = 140 MT	Efforts are being made to complete the remediation work at the earliest.	EO, Bhadson	31.03.2022
х.	Villages (1038)	Panchayat	Not Started	Due to large number of legacy Dumpsite site, scheme is yet to be prepared.	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 = 139 GPs By 30.06.24 = 146 GPs

					By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
vi.	Involvement of NGOs	MCP and remaining ULBs - No Gap	MCP:- Power House Youth Club is motivating farmers to take away compost produced by Bio Remediation process for agriculture purpose.	MCP EOs of respective ULBs	Regular Activity
		Villages Panchayat (1038)	NGOs shall be identified for the purpose.	DDPO	
vii.	EPR of Producers: Linkage with Producers / Brand Owners	MCP – No Gap Linkage with producer's/ brand owners is pending. Gap = 100 %	MCP:- Activity is being carried out by HariBhari company. Efforts are being made to complete the linkage at the	Recyclable Pvt Ltd Patiala	Regular Activity 30.06.2022
			earliest	respective ULBs	
viii.	Authorization of Waste Pickers	MCP - Total 350 waste picker is authorized by HariBhari Recyclable PvtLtd Patiala.(No Gap)	As per requirement, authorization of waste pickers will be carried out.	MCP – Hari Bhari Recyclable Pvt Ltd Patiala	Regular Activity
		MC Rajpura (119), Nabha (28), Samana (5), Sanaur (8) Ghagga (5) Patran (7) Ghanaur (1) Bhadson (2) have identified and authorized informal waste collectors. (No Gap).		EOs of respective ULBs	
		Villages Panchayat (1038)	Not started yet	DDPO	Preparation of action plan 31.03.2022 Waste picker authorization by

ix.	Preparation of own by-	MCP and All MCs/NPs	MCP - Bye Laws are Notified	МСР	30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs Activity Completed.
	laws to comply with SWM Rules 2016	prepared. (Adopted the Model SWM by-laws received from PMIDC).	vide notification no 5/105/2020-2 LG 4/1391(A) Dated 11-08-2020.	EOs of respective ULBs	
х.	Removal of garbage vulnerable points(GVPs)	Villages Panchayat (1038) No gap, as activity Completed	8	DDPO MCP EOs of respective ULBs	31.03.2022 Activity Completed
xi.	and boundary wall	MCP:-300 ft long wall with iron sheets also constructed around dump site and green belt provided. No Gap.	No Action required.	MCP EOs of respective ULBs	Activity Completed
		7Mcs (Bhadson, Ghagga,	<u>Remaining8 MCs/NPs</u> Boundary wall at MC Sanaur shall be constructed in consultation with Govt being site on lease.		31.12.2021 for MC, Sanaur.

ör. No.	Action points For villages /blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
xii.	Providing compartments and GPS tracking in garbage carrying vehicles	MCP: - 56 Garbage collecting Vehicles and 5 trucks have been Compartmentalized and provided GPS Tracking system.	GPS Tracking.	MCP EOs of respective ULBs	Activity completed
		Remaining 08 MCs/NPs:- All the 44 mechanical Vehicles have been provided compartments with GPS. No Gap.			
xiii.	Stopping solid waste/ garbage being thrown in Ghaggar and Drains	No Gap	Awareness is being carried out in the public to stop the dumping of solid waste in river/Nallah.	MCP, Drainage, Rural	Regular activity.
	passing through Patiala city		Challans are also issued to the violators by the MCP. Further, team of comprising Deptt. of Rural Development and Panchayat, PWSSB and Drainage is regularly keep check on the drains for	Developme nt and	
xiv.	Treatment of leachate generated from legacy waste dumpsite.	MCP:- Effluent treatment plant is to be installed at legacy waste dump.	dumping of any solid waste. MCP:- Proposal for installation of treatment plant is under consideration		MCP:- 30-06-2022
	(Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)	MCs/NPs: No such arrangement has been	Remaining 08 MCs/NPs:- Leachate management will be done along with Bio- remediation of legacy waste.		 Department of Urba Development (for other ULBs): Treatment of leachat waste by 30.06.2022.
xv.	Best practices, including setting up of Control Rooms where citizens can upload photos of		Swachhata app is widely used by citizens for complaints related to SWM/ SBM, It is resolved and monitored at ULB and state level	All Local bodies	Already in place

	garbage which may be		both.		
	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)				
xvi.			MCP:- Case for installation of		MCP:- 30-10-2021
	installed at dumping		CCTV has been sent for approva	I	
	sites. (Directions of		and will installed by 30-10-2021		
	Hon'ble NGT in OA no.				
	606 of 2018 dated		Department of Urban		Department of Urbar
	22.07.2019,		Development (for other		Development (for other ULBs):
	28.02.2019,		ULBs):-		30.11.2021
	14.12.2020)		Proposal is under consideration.		
xvii.	Installation of	MCP : No Gap	MCP:- Installed at dumpsite	MCP	MCP:- NA
	Piezometer at Dump		Department of Urban	EOs of	
	Site. (Directions of	Remaining 8 MCs/NPs:-	Development (for other	respective	Department of Urbar
	Hon'ble NGT in OA no.	5 MCs/NPs Ghagga, Ghanaur,	ULBs):-	ULBs	Development (for other ULBs):
	606 of 2018 dated	Nabha, Patran, and Rajpura.	Installed by Ghagga, Ghanaur,		30.11.2021
	22.07.2019,	have installed Piezometer at	Nabha, Patran, and Rajpura.		
	28.02.2019,	dump site and rest is yet to be	Rest of ULBs will install by		
	14.12.2020)	provided.	30.11.2021		
xviii.	Carcass should be utilized	MCP= Carcasses will be sent to	MCP:has installed the Carcass	MCP	MCP :- Tie-up with Municipa
	by adopting rendering	the rendering plant at	Utilization Plant at village	ADC(UD)	corporation Ludhiana fo
	process or incineration	Ludhiana. For the time being till	Noorpur Bet (Hambran		scientific disposal of anima
	and priority may be given	the completion of plant, short	Road), Dist. Ludhiana. Trails		carcasses
	to carcass utilization	time measure like proper	of plant have been		
	plants which are run by	boundary wall and green belt is	completed in the month of		
	adopting rendering	being provided around carcass	June 2021.		
	process. (Directions of	disposal sites.			
	Hon'ble NGT in OA no.				
			Other 08 MCs :-Process of		Other 08 MCs :- Process o
	465/2019 dated	Other 08 MCs = All 08 ULBs are	Other do MicsProcess of		Utilei uo Mics Flucess u

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		scientific disposal of animal carcasses.	be achieved by 31.03.2022		achieved by 31.03.2022
Sr. No.	Action points For villages /blocks/ town municipalities / City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
xix.		No gap	Carcass disposal will be ensured under the supervision of veterinary doctors.	МСР	Regular activity
XX.	Management of waste water and solid waste	Inadequate management of solid waste and liquid waste in these colonies.	The team has checked so far visited 33 such colonies. The work is huge and different department are involved for joint inspection. Hence, time is required upto 31.12.2021 for the complete for the identification work.	MCP&PDA	 MCP (Within Municipal Limit) Identification by 31.12.2021 Management of solid waste collection = 31.03.2022. Segregation & treatment = 30.06.2022 Arrangement/ Agreement for dry waste = 30.06.2022 Provision of STPs= 31.03.2022 PDA/DDPO (Outside MC limit) Identification by 31.03.2022
					 Identification 31.03.2022 Management of so waste collection

					30.09.2022. Segregation & treatment = 31.03.2023 Arrangement/ Agreement for dry waste = 31.03.2023 Provision of STPs= 31.03.2023
xxi.	To prepare proposal / scheme for management of solid waste in the villages either in cluster form or independently in individual villages	Inadequate Management o solid waste in the villages.	f Scheme is yet to be prepared.	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 = 139 GPs By 30.06.24 = 146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
xxii.	Information Education and Communication (IEC) activities in respectof 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 & PDA	Regular Activity
xxiii.	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	No gap	Constituted by the State Government.	State Government	Activity completed

	Rules, 2016.				
xxiv.	Management of carcass in rural area.	Inadequate management of carcass in rural area.	No. of carcasses existing = 625 No. of carcass provided liquid waste management = NIL	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
xxv.	Dry-Waste Management: Material Recovery for dry- waste fraction (RDF)		Ltd collects catagorised dry waste which is being taken to 7	MCP:- HariBhari Recyclable Pvt Ltd Patiala	Regular Activity
xxvi.	by MCP	7 MRF center and 535 compost pits are functional for the treatment of solid waste management.	provided	МСР	Regular Activity
xxvii.	Horticulture Waste in MCs.	MCP: Total 112 parks and Compost pits constructed in 43 parks. Centralized composting machine is installed at model town park for processing of horticulture waste of 69 parks. MC Rajpura 52 parks: Compost Pits 10 (Connecting all parks or temporary arrangements at small parks) MC Nabha: 3 parks: Compost pits 3, NP Ghagga 1 park : one	Adequate arrangement provided	MCP&ADC(UD)	Regular Activity

	Compos MC Sana pit, MC/NP patran -	mana 2 parks : 2 t pits, aur 1 park one compost Ghanaur, Bhadson and there is no park.			
xxviii. Managemer waste gen poultry farm	erated fromtheir ca	pacity, quantity of solid enerated.	 Inspection of poultry farms & persuasion shall be carried out for making agreements with the farmers for proper disposal of bird droppings. To make agreement with CBWTF for incineration of dead birds. Installation of scrappers to collect the bird droppings regularly. Compliance of guidelines framed by CPCB vide letter No. B-4032/PCI- SSI/Poultry/2015/13165 dated 20.10.2015. 	PPCB	31.03.2023

(ii) Plastic waste Management

(a) Current status related to Plastic waste management

Sr. No.	Urban Local bodies	Estimated quantity of Plastic Waste Generated MT/per day
1.	Municipal Corporation Patiala	10
2.	Municipal Council Rajpura	2
Sr. No.	Urban Local bodies	Estimated quantity of Plastic Waste Generated MT/per day
3.	Municipal Council Nabha	1.5
4.	Municipal Council Samana	1.1
5.	Municipal Council Patran	0.5
6.	Municipal Council, Sanaur	0.4
7.	Nagar Panchayat Ghagga	0.12
8.	Nagar Panchayat Ghanaur	0.06
9.	Nagar Panchayat Bhadson	0.07
	Total	15.75

ſ	Sr. no.	Local Bodies	Estimated quantity of Plastic Waste Generated (in MTD)
	1	Villages Panchayats (1038)	25

(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		MCP – Proper checking is being carried out to prevent any lapse	MCP - HariBhari Recyclable Pvt Ltd Patiala	MCP - Regular Activity.
		C	Remaining 8 MCs/NPs:- To achieve the target of 100% source segregation		Remaining 8 MCs/NPs:- 31.12.2021
		=Not initiated	Plan will be prepared and implemented as per the timelines.	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 = 139 GPs By 30.06.24 = 146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
2.	Facilitate organized collection of plastic Waste at Waste transfer point or Material Recovery Facility	Adequate through Door to Door garbage Collection Rickshaw Rehris etc. • MCP : 200 Rickshaw Rehri, 56 Motorized	 MCP:- for organized collection the 	• MCP : Hari Bhari	Activity completed

vehicle and 350 waste pickers. No gap M.C. Rajpura :- 119	agreement with Hari Bhari Recyclable Pvt Ltd Patiala has already been made. • M.C. Rajpura: 150	Recyclable Pvt Ltd. • EOs of	
Rickshaw Rehris, 7 tractors trollies MC, Nabha:- 64 Rickshaw Rehris. MC, Samana:- 50 Rickshaw Rehris and 8 tata Ace. MC, Patran:-40 Rickshaw Rehris and 4 tata Ace. MC, Sanaur:- 27 Rickshaw Rehris. NP Ghagga:- 13 Rickshaw Rehris and 1 tata Ace. NP Ghanaur:- 12 Rickshaw Rehris. NP Bhadson:- 12 Rickshaw Rehris , 2 Tata Ace	 M.C. Rajpura. 150 more Rickshaw Rehris are to be purchased. MC Nabha: Being processing facility is located far away from one major part of city, which led to non-sustaining of source segregation. MC Nabha has processed tender on to purchase 6 e rickshaws and 3 TATA Ace to overcome this problem. Rest of the ULBs have made sufficient arrangements for organized collection of plastic waste. 	respective ULBs	MC Rajpura : Purchase of Rickshaw Rehris : 31.12.2021 MC Nabha : Purchase of Tata Ace and e.rickshaw : 31.12.2021
Arrangement for Villages Panchayats (1038) = Not adequate	Action plan is yet to be prepared		Villages Panchayats (1038) = Preparation of action plan 31.03.2022

3.	Plastic Waste coll Centres	ction • MCP – 7 Material recovery facility center are available in MCP jurisdiction for Plastic waste Management. MRFs are sufficient as per the requirement and there is no gap between requirement and availability. • Remaining 8 MCs/NPs : The details of the MRF Units provided by MCs/NPs Rajpura=07 Samana=01 Patran=01 Sanour=02 Nabha=02 Ghagga=01 Ghanour=02 Bhadson=02 All the MCs/NPs have	 MCP - Proper checking being carrying out to prevent any lapse. MCC Nabha, NP Ghanour The matter is being pursued with the competent authority EO of respective ULBs MC Nabha and NP Ghanaur 31.12.2021
		All the MCs/NPs have constructed adequate no. of MRF centers	

		except MC Nabha and NP Ghanaur having a Gap of 01 MRF each.			20.06.2024 for
		Villages Panchayats (1038).		• DDPO	30.06.2024 for Implementation 200 MRF by 30.06.2022 200 MRF by 31.12.2022 200 MRF by 30.06.2023 200 MRF by 31.12.2023 238 MRF by 30.06.2024
4.	Awareness and education programs implementation	Regular Activities are done, Community facilitators and Motivators are deputed in all ULBs for door to door awareness.	enforcement in markets, educational institutes and BWGs carried out by MCP and other MCs / NPs	EOs of respective ULBs	Regular Activity
5.	Access to Plastic Waste Disposal Facilities	No Gap	Recyclers and Traders. .PMIDC has executed a contract with M/s MAX specialty Films regarding purchase/ collection of any kind of plastic garbage from the ULBs. PMIDC has also coordinated with PWD and Mandi Board to utilize plastic waste in construction of Roads.	MCP EOs of respective ULBs	Activity Completed
6.	Plastic Industry Registration.Total no. of plastic unit required registration.Total no. of plastic unit obtained registration. (Directions of Hon'ble	Total no. of plastic unit required registration = 58 Total no. of plastic unit obtained registration =	To pursue industry for obtaining registration	РРСВ	Timeline for registration of the remaining units: 31.03.2022.

	08.01.2021)				
7.	Development and setting up of infrastructure for segregation,	MCP and Other remaining 8 ULBs : No gap	MCP:IPCA has been for engaged for collection of a plastic Waste. Separate restricted and stored separately by all ULBs. Currently such plastic is being stored at MRF. Contract For channelization/ processing of both recyclable and stored separately by all stored stored at MRF. Contract For channelization and stored separately by all stored at MRF. Contract For channelization and stored separately by all stored at MRF. Contract For channelization and stored at MRF. Contract For channelization and stored and stored separately by all stored at MRF. Contract For channelization and stored and stored at MRF. Contract For channelization and stored and stored at MRF. Contract For channelization and stored and stored at MRF. Contract For channelization and stored and stored at MRF. Contract For channelization and stored and stored at MRF. Contract For channelization and stored and stored at MRF. Contract For channelization and stored and stored at MRF. Contract For channelization and stored and stored at MRF. Contract For channelization at MRF.	EOs of espective ULBs	MCP: Activity Completed Department of Urban Development (for other 08 ULBs):- capacity of MRFs at MC Nabha, Ghagga, Bhadson and Ghanaur shall be enhance by 31.12.2021
		Villages Panchayats (1038)	non-recyclable plastic have been done with Max Specialty Films Pvt. Ltd. By remaining ULBs.		31.08.2028 For Implementation
		DDPO:- Inadequate disposal arrangement of plastic waste.	timelines.		By 30.10.22 = 105 GPs By 30.10.23= 122 GPs By 30.10.24 = 135 GPs By 30.10.25 =139 GPs By 30.10.26 =146 GPs By 30.10.27 = 180 GPs By 30.10.28 = 211 GPs
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)	Yet to frame in rural areas.	-	MCP, ADC(UD)& DDPO	DDPO = 31.03.2022

S. No.	Action points For village panchayats/blocks/municipalities /corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance
9.	ordinate for Plastic Waste	Inadequate Plastic Waste management in Ruralarea.	Awareness regarding it is being done to the Gram Panchyat for segregation, Collection and transportation. The same will be done with Compartmentalized Rischshaw and stored in the Extra Pit to be made	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs
10.	Ban on non-recyclable single use polythene bags. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	Ban on non-recyclable single use polythene bags	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.	ALL Local bodies/PPCB	By 30.06.25 = 211 GPs The Ministry of Environment forest And Climate chang vide its notification date 12.08.2021 has banned Singl- use plastic with effect from 1.07.2022. Further, the guidelines of the Centre and State Govt., regardin banning of single use plasti will be complied with.
11.		Arrangement for plastic waste disposal.	MCP:IPCA has been engaged for collection of Plastic Waste. Separate chamber has also available in 7 MRF Centers	MCP : IPCA / HariBhari Recyclable Private Ltd Company All Local bodies	Regular activity Department of Urban

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			Development (for other 8		Development (for other 08
			ULBs):-		ULBs):-
			Recyclable plastic waste is		capacity of MRFs at MC
			collected, transported and		Nabha, Ghagga, Bhadson and
			stored separately by all		Ghanaur shall be enhance by
			ULBs. Currently such		31.12.2021
			plastic is being stored at		
			MRF. Contract For		
			channelization/ processing		
			have been done with Max		
			Specialty Films Pvt. Ltd. All		
			the ULBs have mande		
			agreement with the		
			agency		
		Villages Panchayats (1038) : Not Adequate	Plan yet to be prepared.	DDPO	Preparation of action plan
		(1000) . 1000 / dequate			31.03.2022
					Implementation by
					30.06.2025
					By 30.06.22 = 105 GPs
					By 31.12.22 = 122 GPs
					By 30.06.23 = 135 GPs
					By 31.12.23 =139 GPs
					By 30.06.24 =146 GPs
					By 31.12.24 = 180 GPs
					By 30.06.25 = 211 GPs
12.	Awareness to the waste generator	No Gap	Awareness is being carried		Regular activity
	to take steps to minimize the plastic		out on regular basis by	•	
	waste and segregate plastic waste		engaging community	and DDPO	
	at source. (Directions of Hon'ble		facilitators and motivators		
	NGT in EA no. 13/2019 dated				
	08.01.2021)				
13.	Encouragement to the education	No gap	Already being followed	DEO primary	Regular activity
	institute to take up waste		and seminars are being	and secondary	
	management in their curriculum		organized.		
	and create student project for				

	waste recycling. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)				
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)		Instruction are already been given to Gram Panchayat Through BDPO's	DDPO	Preparation of action plan 31.03.2022 Implementation by 30.06.2025 By 30.06.22 = 105 GPs By 31.12.22 = 122 GPs By 30.06.23 = 135 GPs By 31.12.23 =139 GPs By 30.06.24 =146 GPs By 31.12.24 = 180 GPs By 30.06.25 = 211 GPs
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)		Instructions will be given to the industries to explore such activities to department of industries who through research institutes		31.12.2022

(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	MCP – 10 MT
Municipal Corporations/Municipalities)	Remaining 8 MCs/NPs - 9 MTD
^(b) Does the District has access to C&D waste recycling facility?	Yes

(b) Identification of gaps and Action plan:

S. No.	Action points for blocks/ town municipalities /City corporations	•	Action Plan	Responsible agency	Timelineforcompletionofaction plan
1.	collection of C&D waste to	MCP and other MCs / NPs have provided separate collection sites and are adequate. • No Gaps	Not Required	ALL EOs of ULBs, MCP	Activity Completed
2.	•	MCs / NPs has not fixed user fee and permission system is yet to be	which is Rs 500/- per ton Bye laws to be notified and	MCs/NPs	MCP – Activity Completed Remaining 8 MCs/NPs = 31.03.2022

S. No.	Action points for blocks/ town municipalities /City corporations	•	Action Plan	Responsible agency	Timeline for completion of action plan
3.	C&D recycling Facility	MCP : 2 C&D crushing Machine are installed at Bishan Nagar and Focal Point. It is also being used for landfilling at low lying areas, to make footpaths etc	MCP : Efforts are being made to keep on complete utilization of the recycled C & D waste.	MCP & EOs of respective MCs/NPs	Activity Completed.
4.	Usage of recycled C&D waste in non-structural concrete, paving blocks, lower layers of road pavements, colony and rural roads	MCP - recycled C & D waste is being used in lower layers of road payments,in low lying areas for leveling. Remaining 8 MCs/NPs : Grinders purchased by all MCs / NPs	Remaining 8 MCs/NPs : To efficiently operate Grinders for recycling of C & D waste.		
5.	ICE on C&D waste management	No Gap.	Awareness is being carried out through media/ NGOs/ FM on regular basis.	MCP & EOs of respective MCs/NPs	Regular Activity

(iv) Bio medical Waste Management

(a) Current Status related to biomedical waste

Inventory of BMW in the District	Quantity
Total no. of Bedded Health care Facilities	302
Total no. of non-bedded HCF	356
No. of HCFs authorized by SPCBs/PCCs	651
Total No. of veterinary Hospitals/Dispensaries in the District Patiala	167
Total No. of veterinary Hospitals/Dispensaries connected with Common Biomedical treatment facility (CBWTF).	9-Hospitals directly connected with CBWTF. 146-Hospitals/Dispensaries connected via nearest block level institutions
Total no. of veterinary Hospitals/ Dispensaries obtained the authorization of Punjab pollution Control Board	155
Total No. of veterinary Hospitals/Dispensaries adopted segregation of BMW through separate colour coded collections bins.	155
Total no. of veterinary Hospitals/Dispensaries complying with BMW Rules, 2016 and Maintaining record of Biomedical waste generation and its disposal to CBWTF.	155
No of Common Biomedical Waste Treatment and Disposal Facilities(CBWTFs)	0
Capacity of CBWTFs	0
No. of Deep burials for BMW if any	0
Quantity of bio medical waste generated per day	634.55kg/day
Quantity of bio medical waste treated per day	634.55kg/day

(b) Identification of gaps and Action plan:

Sr. No.	Action Points	Gaps	Action Plan	Responsible Agency	Timeline for completion of Action Plan
1.	Inventory and Identification of Healthcare Facilities	identified(Bedded + non- bedded)= 658 • HCFs authorized by the	Regular camps are being organized to pursue the HCFs to obtain the authorization.	РРСВ	Regular activity
2.	Adequacy of facilities to treat biomedical waste	No Gap. The CBWTF M/s Medicare Environments Pvt. Itd at Ludhiana has been given responsibility for disposal of bio-medical waste generated in District Patiala.	Not required	РРСВ	Activity completed
3.	Tracking of Bio-Medical Waste	No Gap. Bar code system is implemented by all HCFs.	Not required	РРСВ	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 available	Civil Surgeon	Not Applicable
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 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 Administrati on and PPCB	Regular Activity
8.	Wastewater Treatment	Total HCFS Required ETP=302Total HCF install ETPs=10	HCFs are being pursued to install the ETP. The	РРСВ	 The timelines vide Board order no. 468 dated 31.08.2021 timeline has

		meetings are being held with the association members.		 been given as 31.03.2022. The HCF will submit a Bank Guarantee to the Board as an assurance to submitted analysis results and installation of appropriate and adequate system to archived prescribed standards. In case sample fail to achieve the prescribed standard.
proliferation of radiotherapy, nuclear medicine, X Rays, CT Scans	 Already Being Complied. 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 agreement with the authorized agency for the disposal of its waste. 	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	119
Quantity of HW in the district (MT/Annum)	15280.33
Quantity of Incinerable HW (MT/Annum)	375.887
Quantity of land-fillable HW(MT/Annum)	1301.032
Quantity of Recyclable/utilizable HW(MT/Annum)	Recyclable=5352.314 Utilizable=8251
Nos. of captive/common TSDF	One common TSDF at NIMBUA, DeraBassi.
No of industries provided on site impervious facilities for temporary collection of hazardous waste	119
Contaminated Sites or probable contaminated sites	0
Monitoring of ground water of common TSDF.	No common TSDF falls in the District Ludhiana.

(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	 Total industries identified =119 Authorized by the PPCB=119. No Gap 	Regular camps are being organized to pursue the industries to obtain the authorization. Also, new hazardous waste generating industries are being identified after making field visits.		Regular activity

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2.	Establishment of collection centres	No gap.	The industries generating	РРСВ	Regular activity
	Establishment of collection centres		hazardous waste have already		
			provided individual impervious		
			storage / collection facility in		
			their premises for temporary		
			storage of hazardous waste		
			and have executed an		
			agreement with TSDF and		
			authorized recyclers for		
			disposal of the same.		
			However, a continuous follow		
			up will be made to rule out		
			unscientific disposal of		
			hazardous waste by the		
			industrial unit		
3.	Training of workers involved in	Industries generating	The workers are being trained	Department of	Regular
	handling/recycling/disposal of HW	HW already identified	time to time. One training	Industries	activity
			program will be provided in a		
			quarter.		
4.	Availability/Linkage with common	The industries	The industries generating HW	РРСВ	Activity
	TSDF or disposal facility	generating HW have	have access to common TSDF		completed
		access to common TSDF in the State.	in the State.		
		No. of units identified			
		linked with CTSDF = 119			
5.	Contaminated Sites	No Contaminated Site	No Contaminated Site	Local Bodies,	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	1398
Collection centers established by ULBs in the District	0
Collection centers established by Producers or their PROs	2
Nos. authorized E-Waste recyclers /Dismantler	01 no. dismantler already established in the District Patiala (M/s Kumar Enterprises, Malerkotla Road, VIII. Dulladi, Teh. Nabha, Distt. Patiala).

(b) Identification of gaps and action plan:

Sr. 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	РРСВ	31.10.2022
2.	E-Waste collection points	Availability of E-Waste collection points / call centres / kiosks in villages – Blocks//towns/ cities is not adequate	centres in association		31.10.2022

3.	Linkage among Stakeholders dechannelize-Waste	Linkage among stakeholders is being done.	Work under progress	MCP, All MCs /NPs and GMDIC	31.10.2022	
Sr. No.	Action Points	Gaps in implementation	Action Plan	Responsible Agency	Timeline completion Action Plan	for of
4.	Regulation of Illegal E-Waste recycling / dismantling	Yet to be initiated	made to identify illegal e-	District Administration & PPCB	31.12.2022	
5.	Integration of informal sector	Being done	Being prepared.	District Administration & PPCB	31.10.2022	
6.	Awareness and Education	Regular activity	Quarterly Special workshops and awareness campaigns through Producers/PROs will be carried out.	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)	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.		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.	РРСВ	Regular activity	
9.	producers for collection and	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.	РРСВ	Regular activity	
10.	Verification of facilities of dismantlers and recyclers for their infrastructure	This is a continuous activity. All the dismantlers/recyclers	This is a continuous activity. All the	РРСВ	Regular activity	

	and records. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	will be verified per year.	dismantlers/recyclers will be verified per year.			
Sr. No.	Action Points	Gaps in implementation	Action Plan	Responsible Agency	Timeline completion Action Plan	for of
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	Quarterly drive will be carried out checking of this activity.		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		District Administration/P PCB	Regular activity	
13.	Governance frame work for monitoring compliance. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	5 5	Regular Monitoring will be carried out to check the compliance.		Regular activity	
14.	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 run on regular basis.	Administration,	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	IEC plan has been prepared by state and being implemented in all ULBs widely.	Administration,	Regular activity	
16.	Strengthen system of enforcement. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	No gap	Status of enforcement of Byelaws reviewed periodically Hon'ble Deputy Commissioner- cum-Chairman of District Environment Committee.		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	State Government has already planned the focal points for industrial units. Proper space will allocate to the existing and upcoming industrial unit for E waste dismantling and recycling facility.	PSIEC	Already done
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)	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
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	Will be Ensured on Annual basis.	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)	Separate waste deposition centers for domestic E- waste	MCP:-Domestichazardouswastedepositioncenterswillbeestablishedwiththeeachsecondarycollection point.JepartmentofDepartmentofUrbanDevelopment(for otherULBs):-E-Wastedepositioncenterisyetto	All Local Bodies	MCP:- 31.12.2022 as same will be established with the secondary points and establishment of the compactor. For other ULBs :- 30.06.2023

				established at each ULB		7
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5. 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.	1, (At Patiala city)
Operated by SPCB / State Govt / Central govt./PSU agency:	0
Operated by Industry:	
Number of manual monitoring Stations operated by SPCBs	5
Name of towns/cities which are failing to comply with national	01 (Patiala city)
ambient air quality stations	
Nos. of air polluting industries	945
No. of unit installed APCD	945
Status of Air Consent	Regular activity
	Total no. of industries requiring consent to operate und
	Air Act, 1981
	Red = 145
	Orange =1122
	Green=180
	Total no. of units having valid consent as on 30.09.2021
	Red =108
	Orange =824
	Green=122
	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	Vehicular pollution, Road dust, burning of garbage and
	biomass, construction and demolition activities, industrial
	emissions.

(b) Identification of gaps and action plan:

Sr. No.	Action Points		Gap &	Indicative Action Pla	n	Responsible Agency	Timeline for completion of Action Plan
1.	Identification of prominent air polluting	-	sources hav n for Clean A	ve been already ide ir Patiala:-	entified as per	MCP,PWD, Agriculture	31.10.2021
	sources?	1. V	ehicular poll	ution	48%	Department	
		2. R	load dust		27%	& PPCB	
		3. B	urning of ga	rbage and biomass	7 %		
		-	onstruction ctivities	and demolition	12 %		
		_	ndustrial emi	ssions	4 %		
			•	Study has already be al report is awaited.	een carried out		
2.	AmbientAirqualityAmbient air quality is already being monitored. The a average value of the year 2019 and 2020 is as under:			РРСВ	Activity completed. Stations already working.		
		Sr. no.	Year	$PM_{10}\mu g/m^3$)	AQI		
		1.	2019	113	110		
		2.	2020	93	92		
		website o	of PPCB on re	tions is being uploa gular basis. 'en/air-quality	ded on official		
3.	Setting up of Continuous Ambient Air Quality Monitoring Station	1 CAAQMS	already inst	alled		РРСВ	Activity completed
4.	District Level Action Plan for Air	submitted	to Ho	l air pollution alread n'ble NGT. On			Action Plan Already prepared and will be implemented.
	Pollution			ov.in/en/action-plans			
5.	Hotspots of air pollution in District	Apportion	ment Study	yet to be iden has already been ca ort is awaited.		РРСВ	31.12.2021

Sr. No.	Action Points	Gap & Indicative Action Plan	Responsible Agency	Timeline for completion of Action Plan
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	РРСВ	Regular activity
7.	Industries to be converted from coal to CNG	No such industry to be converted from Coal to CNG. Thus, no gap.	PPCB/DIC	Not Applicable
8.	Conversion of Natural Draft Brick Kilns to Induced Draft Brick Kilns	 Total BKO required to convert to ZIG ZAG = 119 Converted to ZIG Zag Technology= 119 Yet not converted = 0 	PPCB/DFSC	Activity Completed
9.	Maintain pothole free roads / timely patchwork on roads	 MCP The patch work is a regular process. 0.9 Km out of 1.15 km of roads has been made pothole free up to 31-08-2021. Further work is in progress. PDA/PWD 20.58 km of road length made porthole free. Further, Patchwork of roads is continuous process. As and when potholes develop on roads the same are got repaired as soon as possible. 	MCP, PDA/PWD	Regular activity
10.	Procurement of Mechanical sweeping machines	 Proposal has been submitted by the MCP regarding procurement of 1 Mechanical Sweeping Machine and the same is under consideration of the authorities. 	МСР	Time Target: 31.12.2021
	Plantation of trees along highways, drains, Nallahs in colonies and canals etc.,	 Plantation has already been done along the road sides in areas available as per the jurisdiction of respective authorities. 	MCP, ADC (UD), PPCB	Regular activity
	Greening of parks, open areas, community places, schools and housing societies	respective authorities	Drainage department, MCP,ADC(UD), PDA, and Forest department	Regular activity

13.	Kaccha/Brick Paved	MCP	MCP/ ADC	31.12.2021
	Roads to be made Pucca	The 3.72 km out of 5 km (as per new targets) road	(UD)	
	roads	work already completed upto31.08-2021. Further work		
		is in progress.		
		ADC (UD)		
		The Paved roads/kaccha roads are also converted into		
		pakka road in each ULBs.		
14.	Existing roads requiring	Re-carpeting of the roads is continuous process. The	MCP,	Regular activity
	re-carpeting	roads are presently in good condition. The re-carpeting	ADC(UD),	
		will be done as and when required.	PWD, PDA,	
			PSIEC	
15.	Public awareness	The camps are being organized regular basis.	Traffic	Regular activity
	campaign for control of	Facebook, Twitter & Instagram is also being used to	Police,	
	vehicular emissions	spread traffic awareness.	Transport	
16.	Extensive drive against	The extensive drive against polluting vehicles already	Traffic Police	Regular activity
	polluting vehicles	initiated by the Police department.		
17.	Prevention parking of	The extensive drive already initiated by the Police	Traffic Police	Regular activity
	vehicles in non-	department to prevent parking of vehicles in non-		
	designated areas by	designated areas and issuing challans to the violators.		
	enforcement actions			
18.	Phasing out commercial	Scheme under consideration.	Transport	Time Target: 31.12.2022
	diesel vehicles more than			
	15 years old			
19.	Promotion of E-Vehicles	This is being done on regular basis.	Transport	Regular activity
20.	Infrastructure	Total 13CNG station has been commissioned out of	DFSC	31.03.2022
	development for	total 16 station and 3 are under process.		
	additional of CNG based			
	autos/taxis			
21.	Control of open burning	MCP		Regular activity
	of bio-mass.	535 Number of pits constructed by the Municipal	ADC(UD)	
		Corporation to manage the horticulture waste in Parks	and PDA	
		and green belts to control of open burning of bio mass		
		in the city.		
		ADC(UD)		
		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. PDA Presently, 23 pits are provided to ensure proper disposal of bio mass, biodegradable material from		
22.	Dissemination of Air Quality Index by installing CAAQMS	parks. 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	One no. already installed ir Patiala. Activity completed
23.	Dissemination of Air Quality Index by installing display boards in the 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/	РРСВ	One no. already installed, in Patiala city. 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 no. 360/2018 dated 05.07.2021)	Plantation and maintenance is being done by public participation mode.	Department of forest	Regular Activity
27.	Carrying capacity and source apportionment study of non-attainment Cites.	Carrying capacity and Source apportionment studyhas been already carried out through 3 rd party (IIT Delhi) and the report is awaited.	РРСВ	Source Apportionment Study = Completed and report is awaited and expected by 31.10.2021. Carrying Capacity = 30.04.2022
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 & Deptt. of Forest	Time target: 31.03.2022

29.	Steps to be taken for	• Farmers awareness camps will be organized.	Agriculture	Seasonal / regular Activity.
	management of	• Mobile Van in each block will be launched for	department	
	agriculture waste/residue	promoting in-situ management of rice stubble.		
		• Insitu machinery have been provided to the farmers		
		at subsidy as per the details as under:		
		✓ Happy seeder : 424		
		✓ Super Seeder : 955		
		✓ Paddy straw chopper : 300		
		✓ Mulcher : 152		
		✓ RMB Plough : 262		
		✓ Zero Till Drill : 444		
		✓ Super SMS : 576		
		✓ Rotary Slasher : 11		
		✓ Shrub Master : 3		
		✓ Rotavator : 45		
		✓ Baler: 16		
		✓ Rake : 15		

6. WATER QUALITY MANAGEMENT

- (a) Water Quality Monitoring
 - Current Status related to Water Quality Management

Details of Data Requirement	Present Status
Rivers	River Ghaggar
Length of Coastline (if any)	Coastline of River Ghaggar In District Patiala : 136.16 km (Vill. Tepla to U/s of Khanouri syphon)
Nalas/Drains/Creeks meeting Rivers	4[Pachisdara, Patiala Nadi, Sagarpara (coming from Haryana) and Meerapur Choe]
Lakes/Ponds	Nil
Total Quantity of sewage from towns and cities in District	137MLD
Quantity of industrial wastewater	11.47MLD
Percentage of untreated sewage	16.66%

Details of bore wells and number of permissions given for extraction of groundwater	80034 and number of permissions = 61 (DAC = 18 CGWA= 43)
Ground water polluted are as if any	Nil
Polluted river stretches if any	River Ghaggar

> Identification of gaps and action plan for water quality monitoring:

Sr. 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 are already being carried out and data is being maintained.	Deptt. of Water Resources / Deptt. of Rural Development & Panchayats	Regular activity
2.	Quality of water bodies in the district	The monitoring of rivers, drains are already being carried out and data is being maintained and also discussed in periodic meeting of District Environment Committee. The information of water quality will be also uploaded on the official websites of SPCB & District Administration. The web link is <u>https://ppcb.punjab.gov.in/en/water-quality</u>	District Administration and PPCB	Regular activity
3.	Hotspots of water contamination	Identified and given in the Ghaggar Action Plan web link is https://ppcb.punjab.gov.in/en/action-plans	PPCB, MCP, 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		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	MCP,DDPO & Department of urban development	Activity Completed
6.	Oil spill disaster management (for coastal districts)	Not applicable	Not applicable	Not applicable
7.	Protection of flood plains	Plan Prepared	Drainage Department	Plan Prepared. The concerned department regularly observes and protects the flood plains

				bye constructing river draining works.
8.	Rejuvenation of ground water	Master Plan to Artificial Recharge to Ground Water in India-2020 has already been prepared vide which it has been suggested number of recharge shafts, farm Ponds and Rooftop Rain water harvesting structures in different District and the link for the Master Plan is http://cgwb.gov.in/Master%20Plan%20to%20GW%20R echarge%202020.pdf		Regular Activity
9.	Complaints redressal system	Mobile App/Online Complaint redressal system already developed. The web link is https://connect.punjab.gov.in/grievance/save	РРСВ	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	5
No of Class-I towns	3
No of Towns STPs installed	8
No of Towns needing STPs	5
No of ULBs having partial underground sewerage network	5
No of towns not having sewerage network	0
Total Quantity of Sewage generated in District from Class II cities and above	137 MLD
Quantity of treated sewage flowing into Rivers(directly or indirectly)	100MLD
Quantity of untreated or partially treated sewage(directly or indirectly)	22MLD
Total available Treatment Capacity	115MLD in District Patiala

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

Sr. No.	Action Points	Gaps and Action Plan	Responsible Agency	Timeline for completion of Action plan
1.	Sewage Treatment Plants(STPs)	Patiala-I (Shermajra) STP of capacity 46 MLD has already installed and in operation.	MC, Patiala	Activity Completed
		Patiala-II (Ablowal) STP of capacity 10 MLD has already installed and in operation.	MC, Patiala	Activity Completed
		Patiala-III (PUDA) STP of capacity 13 MLD has already installed and in operation.	PUDA	Activity Completed
		Patiala (Shermajra) STP of capacity 15 MLD has already installed and in operation.	MC, Patiala	Activity Completed
		MES, Patiala STP of capacity 6 MLD is under construction and 80 % work has already been completed.	MES	31.12.2021
		Rajpura STP of capacity 7 MLD & 10 MLD have already installed and in operation.	PWSSB	Activity Completed
		Samana STP of capacity 10 MLD has already installed and in operation.	PWSSB	Activity Completed
		Patran STP of capacity 4 MLD has already installed and in operation.	PWSSB	Activity Completed
		Nabha STP of capacity 12 MLD is under construction.	PWSSB	31.12.2022
		Sanour STP of capacity 4 MLD is yet to start. Tender has been allotted & covered under rejuvenation of chotti & baddi nadi project.	PWSSB	31.12.2022

	Bhadson STP of capacity 2 MLD is yet to start. However, DPR has been prepared and tendering process has also been started.	PWSSB	31.12.2023
	Ghagga STP of capacity 2 MLD is yet to be constructed.	PWSSB	31.12.2023
	Ghanour STP of capacity 2 MLD is yet to start. However, DPR has been prepared and tendering process has also been started.	PWSSB	31.12.2023
	PSIEC, Focal Point, Nabha STP of capacity 2.5 MLD has already installed and in operation.	PSIEC	Activity Completed
	MES Nabha STP of capacity 1 MLD is to be installed. The project is at tendering stage.	MES	31.10.2022
2. Underground sewera network	 MCP : Sewerage Network is already being laid out in major town and cities. The percentage of sewerage laid is as under:- 95 % rest for 5% sewerage will be laid under the AMRUT 2.0 the process will be initiated by PMIDC. After collecting the field data the DPR will be prepared and got sanctioned from govt. of India, then tender documents will be prepared. All above mentioned step will be taken by the PMIDC. All other MCs : Sewerage Network is already being laid out in major town and cities. The percentage of sewerage laid is as under:- MCP = 95 % Nabha = 35% Bhadson = 0% Ghanaur = 95% Sanour = 0% 	MCP & PWSSB	MCP - 31.12.2022 ULBs/PWSSB – 31.12.2023

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		Patran=70% Ghagga=0% Rajpura=92% The DPR for remaining work has been prepared to complete pending work.		
3.	Setting up of real time water quality monitoring system to monitor the quality of water	One RTWQMS for River Ghaggar has already been installed and working.	PPCB	Activity completed
4.	OperationandMaintenance of STPs(i)Arrangingfundsforoperationmaintenanceof STPsensuringregularoperationandmaintenanceof STPsin a professional manner	Completed, No Gap.	MCP, PDA& PWSSB	MCP, PDA & 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	MCP, PDA & PWSSB	STP Patiala-I (Shermajra) (46 MLD & 15 MLD) – Provided STP Patiala-II (Ablowal) (10 MLD) – Common Lab Provided with Shermajra STP Patiala-III (PUDA) (13 MLD) – Provided STP Rajpura (7 MLD & 10 MLD) – Common Lab Provided STP Samana (10 MLD) – Provided STP Patran (4 MLD) – Provided STP PSIEC, Focal Point, Nabha (2.5 MLD – Not Provided Total STPs = 8 Lab Provided = 7 Lab Not provided = 1 as small STPs

Sr. No.	Action Points	Gaps and Action Plan	Responsible Agency	Timeline for completion of Action Plan
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	 No. of village ponds for which work has been completed:- 41 No. of villages where work is under progress= 04 No. of villages where work is yet to be started = 18 	DDPO & Xen Panchayati Raj	Within Three Month from the Date of receipt of Funds
	(ii)Arrangement of Funds for treatment technology in various villages identified in the Action Plan	 No. of village ponds for which funds treatment technology arranged: 22 The work for arrangements of funds for the remaining village is under process. 	DDPO & Xen Panchayati Raj	Within Three Month from the Date of receipt of Funds
	(iii)Reuse of water for agriculture purpose in villages.	 No. of village ponds for which irrigation scheme has been implemented: - NIL Progress for the remaining villages: work is under progress under the MGNREGA Scheme. 	DDPO, Soil conservation department & Xen Panchayati Raj.	Within Three Month from the Date or receipt of Funds
	(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:41 B. Progress for the remaining villages for remaining villages work is under progress under the MGNREGA Scheme 	DDPO	Within Three Month from the Date of receipt of Funds
6.	(i)Checking of health indices of the in-habitants & maintaining database.	Camps are organized on monthly basis	The Department of Health and Family Welfare	Regular activity
	(ii)Holding awareness camps in the catchment area of River Sutlej to make the public aware regarding water borne diseases			

Sr. No.	Action Points	Gaps and Action Plan	Responsible Agency	Timeline for completion of Action Plan
7.	(i)Measurement of flow at different locations of River Ghaggar& drains.	The flow is being monitored on monthly basis by the drainage department.	Department of water resources,	Regular activity
	(ii) To stop unauthorized discharge in the drains.	Regular survey is being done by the concerned departments to stop unauthorized discharge in the drains.	Department of water resources, MCP and DDPO.	Regular activity
8.	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.	MCP and EOs of respective MCs/NPs	31.03.2022
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)	Being implemented 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)	 Total marriage palace (outside city limits) : 82 ETP / STP installed : 3 ETP / STP yet to be installed : 79 The directions regarding installation of ETPs / STPs are being implemented as per guidelines framed by CPCB 	РРСВ	31.12.2022
11.	All the units having kitchen should have proper ducting arrangement. The units	Being implemented as per guidelines framed by CPCB	PPCB	31.12.2022

	using DG sets must have the proper stack height.			
	(Directions of Hon'ble NGT			
	in OA no. 400/2017 dated			
	04.02.2021)			
12.	The local	Being prepared.	All Local Bodies	30.06.2022
12.	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)			
13.	The local bodies/municipal	The Public notice will be given in the Newspaper and	All Local Bodies	Timeline for registration= 31.12.2022
13.	corporations shall publish	on the website of local body for registration of dairy		
	a public notice in	farms and gaushalas		
	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 District Collectors of	Such Committees will be constituted	District	31.12.2021
14.	all the Districts are		Administration	51.12.2021
	directed to constitute		Administration	
	monitoring committees to			
	monitor the Extraction of			
	Ground Water by the			
	individuals for commercial			
	purposes. (Directions of			
	Hon'bleNGT in OA no.			
	176/2015 dated			
	20.07.2020)			

Sr. No.	Action Points	Gaps and Action Plan	Responsible Agency	Timeline for completion of Action Plan
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)	Noted for compliance and will be assured.	All local bodies & DDPO	Regular activity
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 carried out 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.		Activity Completed
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.	Resources (Ground water	31.03.2022
18.	The Water Management Plans, data on water availability or scarcity and	Noted for compliance and will be assured.	PWRDA	31.03.2022

	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			
19.	20.07.2020) 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)	Till date 90 ponds have been rejuvenated/restored and rest 208 will be restored upto 31.12.2022.	DDPO	31.08.2022
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)	A proposal will be prepared in coordination with technical bodies to tap excess run of rivers / canals to rainfall season to recharge old water bodies and to retain water in new ponds.	Irrigation / Drainage department	31.12.2026
21.	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
22.	Land owning agencies must ensure that every	Already implemented	Drainage Department	Activity Completed

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	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)			
23.	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
24.	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.	PDA/MCP/Dep artment of urban development	Regular Activity
25.	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.	PWSSB	Time line for Preparation of plan 31.03.2022. Time line for implementation of plan = 30.09.2022.

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Sr. No.	Action Points	Gaps and Action Plan	Responsible Agency	Timeline for completion of Action Plan
26.	Control of illegal extraction of groundwater. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	Inspections are being made to control illegal extraction of ground water.	All Local Bodies	Regular Activity
27.	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 Patiala.	District Heads of concerned departments and District Administration.	 Monthly Meetings shall be taken and District Head of concerned department for the review activities of this plan and not officer of concerned department w submit the reports to the Distric Environment Committee and PPC on monthly basis.
				 Monthly Meetings shall be taken the District Administration alor with District Environme Committee.
28.	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
29.	Preparation of operational manual of STPs for the effective and efficient operation of the STPs of the state.	It is under preparation.	PPCB	Time target: 31.10.2021
30.	Enhancement of capacity of existing ponds/ water bodies and creating of	 A. Existing Ponds(Total) = 1345 B. No. of Ponds whose Capacity has been 	DDPO &Xen Panchayati Raj	Timeline: 31.10.2023

	new water harvesting structures.	enhanced = 335 C. New ponds = 2 Source of Funds above activities: Gram Panchayat Fund, 14th & 15th Finance Commission, MGNrega, MPLAD Scheme RDO(S) 28 The ponds contains both wastewater and rain water.		
31.	Usage of treated sewage for sprinkling purposes for sweeping of roads to control dust pollution.	Being used for sprinkling purposes and also used for sweeping of roads in various areas by MCP and other MCs/NPs & PDA.	MCP and EOs of respective MCs/NPs and PDA	Regular activity
32.	Mapping of the rivers and flood plain zones in the catchment area of rivers of the State.	The mapping has already been done by the Drainage Department in an electronic file.	Department	Completed
33.	Utilization of STPs sludge	STP sludge is used by the farmers as manure.	MCP and EOs of respective MCs/NPs and PDA	Regular activity
34.	Framing policy for the management of highly contaminated Feacal 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
35.	The projects being developed for supply of canal water to the inhabitants of the cities/villages may be completed in a time bound manner.	The project for supply of the canal water to 316 villages has been taken up and for the same, two no. Water Treatment Plants (Mandouli, Pabra, Distt. Patiala) will be constructed and 491 Km D.I transmission line will be laid in this project. Work of both Water Treatment Plants in progress and 263 Km. D.I transmission line have been laid in both clusters. Overall 45% works have been completed. The Design Build work will be completed upto 26-01-2023. Budgetary Provision (i) Capex Cost is to be funded by World Bank &Jal Jeevan Mission on 50:50 basis.	Department of Water Supply and Sanitation	Project completion by 26.01.2023

		(ii) Project will be operated by the Contractor for 10 years.		
36.	Reuse of treated effluent through existing STPs (OA no. 496/2016 dated 22.01.2021)	completed and working = 3Samana (10 MLD),	Department of Soil conservation, PWSSB	 STP Shermajra (46 MLD& 15 MLD): Project will complete by 31.12.2023 (Within two years after allocation of the funds). STP Ablowal (10 MLD): -Project will complete by 31.12.2022 (Within one & half year after allocation of the funds). STP Rajpura (10 MLD): Project will complete by 31.12.2022 (Within one & half year after allocation of the funds).
37.	through proposed STPs (New STPs) (OA no.	1. STP Bhadson (3 MLD): Preliminary Survey has	Department of Soil Conservation / PDA	STP Bhadson (3 MLD): 31.12.2023 STP Nabha (12 MLD): 31.12.2023
		3. STP Ghanour (2 MLD): Preliminary Survey has been done and STP is yet to constructed.		STP Ghanour (2 MLD): 28.06.2024
		4. STP Sanour (4 MLD):STP was undertaken alongwith rejuvenation project of Chotti & Baddi Nadi of Patiala being implemented by PDA.		STP Sanour (4 MLD): 31.10.2022.

Sr. No.	Action Points	Gaps and Action Plan	Responsible Agency	Timeline for completion of Action Plan
38.	Installation, operation & maintenance of online continuous effluent monitoring system with flow meter as well as CCTV cameras for the existing STPs.	CCTV Provided = 8 OCEMS Provided=5 (except STP Samana, Patran &	MCP, PDA, PWSSB	 STP Samana (10 MLD):31.12.2021 STP Patran (4 MLD): 31.12.2021 STP Rajpura (10 MLD): 31.12.2021
39.	Activity w.r.t. In-situ remediation technology to be provided in the drains carrying untreated sewage.	10 MLD and 15 MLD in the different area and All the	MCP EOs of respective MCs/NPs	31.03.2022

7. 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=151,Orange Category unit =1124,GreenCategory unit=181 and White Category unit = 18
No. of Industries discharging wastewater (generating trade effluent)	 100 i. No. of industries installed captive ETP = 81, ii. No. of industries joined CETP = 19
Status of Water Consent	 Regular activity Total no. of industries requiring consent to operate under Water Act, 1974 ✓ Red = 151 ✓ Orange =998 ✓ Green=158 Total no. of units having valid consent as on 30.09.2021 ✓ Red = 124 ✓ Orange =780 ✓ Green=105

	 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	11.80MLD
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:

Sr. 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.	РРСВ	Regular activity
2.	Complaint redressal system	Online compliant portal already developed. Web link: publicgrievancepb.gov.in	РРСВ	Activity complied
3.	Installation of Online Continuous Monitoring System by 17 categories highly polluting industries.	OCEMS already installed.	PPCB	OCEMS installed
4.	Installation of Electromagnetic flow meters at inlet and outlet of ETP.	The water polluting industrial units have already installed the EMF meters. However, inspections will be made to check its functioning and records being maintained by the said industries.	PPCB	30.04.2022
5.	Inspection of units to check compliance	Inspection already being made	РРСВ	Regular activity

8. MINING ACTIVITY MANAGEMENT PLAN

(a) Current Status related to Mining Activity Management

Details of Data Requirement	No mining activity is carried out in the jurisdiction of District Patiala
Type of Mining Activity	NA
No of licensed Mining operations in the District	NA
% Area covered under mining in the District	NA
Area of Sand Mining	NA
Area of sand Mining	No mining activity is carried out in the jurisdiction of district Patiala

(b) Identification of gaps and action plan:

Sr. No.	Action Points	Gaps and Action Plan	Responsible Agency	Timeline for completion of Action Plan
1.	Monitoring of Mining activity	No mining activity is carried out in the jurisdiction of District Patiala	Department of water resources	-
2.	Inventory of illegal mining if any mining	No mining activity is carried out in the jurisdiction of District Patiala	Department of water resources	-
3.	Environment compliance by Mining industry	No mining activity is carried out in the jurisdiction of District Patiala	Department of water resources	-

9. 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	No of analyzer available = 1 (With PPCB)		
agencies in district			

(b) Identification of gaps and action plan:

Sr. No.	Action Points	Gaps and Action Plan	Responsible Agency	Timeline for completion of Action Plan
1.	Availability of Sound/Noise Level Meters.	 Total No. of analyzers required : 27 Total Nos. of analyzers available = 01 Balance noise analyzers are required by Police Department: 26 i.e. one meter to each SHO. 	PPCB and Police Department	30.06.2022
2.	Ambient Noise Level monitoring	Yet to install	РРСВ	31.12.2022
3.	Sign boards in Noise zones	Sign boards are installed at sensitive zones. However, sign boards in other areas are yet to install	ULBs	30.06.2022
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 vehiclesRegular checking of vehicle is being done by the police department and PPCB.		Police Department & PPCB	Regular activity.

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, Patiala	Ms. Vineet Kumar, IAS	Commissioner Municipal Corporation, Patiala	84277-74331	<u>cmc_patiala@yahoo.com</u>
2.	PDA	Sh. Anuj Sehgal	Executive Engineer	94631-89488	de civilpda@rediffmail.com
3.	Local Government, Department.	Sh. Gautam Jain, IAS	Additional Deputy Commissioner (UD) Patiala	99581-22047	adcupatiala@yahoo.com_
4.	Punjab Pollution Control Board	Er. Navtesh Singla	Environmental Engineer, Regional Office Patiala	81466-62528	<u>eero patiala@yahoo.com</u>
5.	Regional Transport Authority, Patiala	Sh.Sham Lal	Assistant Transport Officer	99142-23294	rtapatiala4@gmail.com
6.	Police Deptt. Patiala	Sh. Rajesh Sanehi	DSP, Traffic Patiala	79862-52918	dsptrafficptl@gmail.com
7.	Distt. Development and Panchayat Officer, Patiala (DDPO)	Sh. SurinderDhillon	DDPO	98142-61000	ddpopatiala@gmail.com
8.	District Soil Conservation Officer, Department of Soil & Water Conservation, Patiala	Sh. Keshav Kumar	DSCO	94172-84738	dscopatiala@gmail.com
9.	Superintending Engineer, Punjab Water Supply &Sewerage Board, Patiala	Sh. Rajeev Kapoor, Sh. Sabjit Singh	Executive Engineer (Divison-1), Executive Engineer (Divison-2)	98153-06344, 97792-28223	<u>eep1.pwssb@punjab.gov.in</u> <u>eepwssd2pta@gmail.com</u>

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