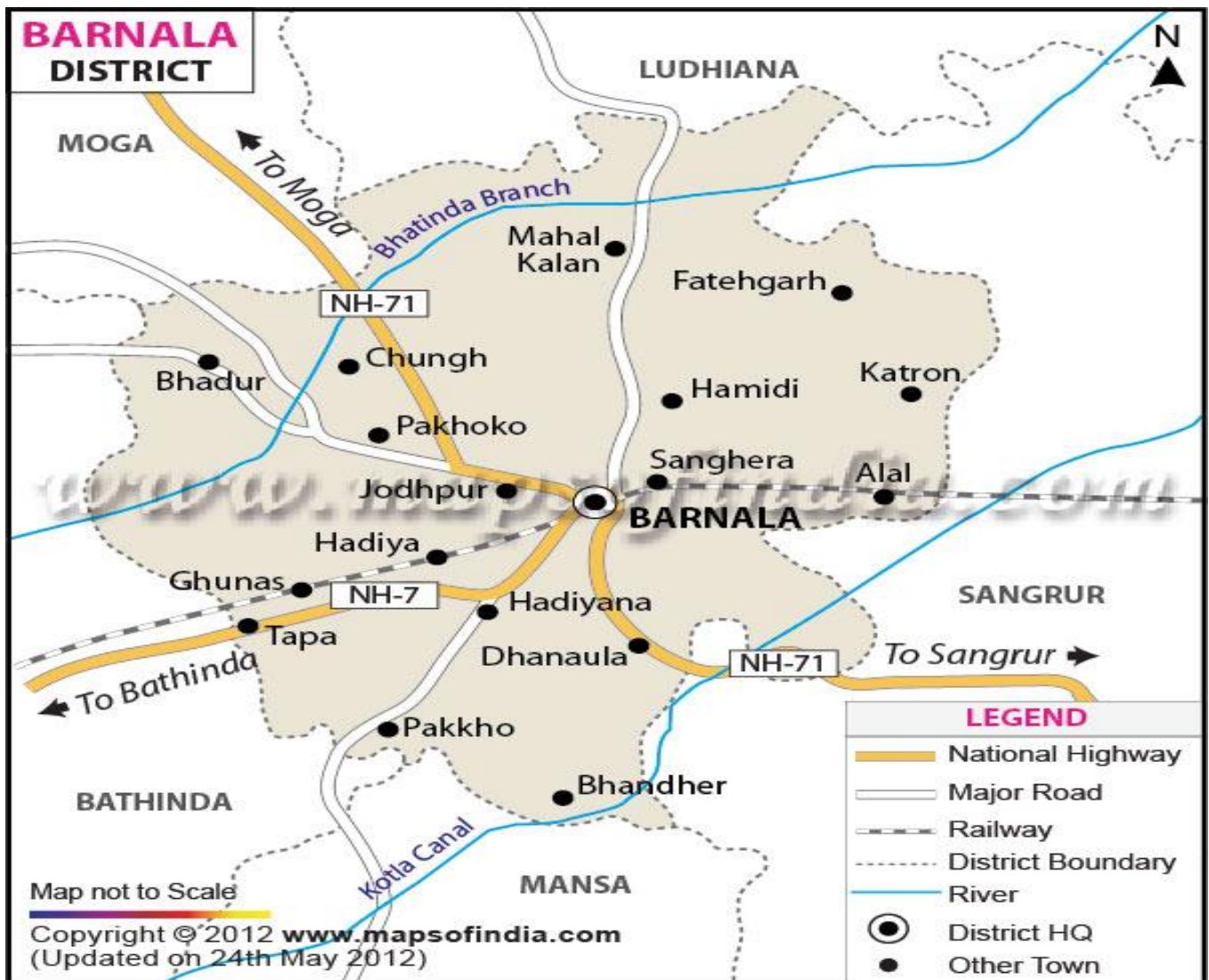


District Environment Plan for Barnala

Punjab State



District Administration - Barnala

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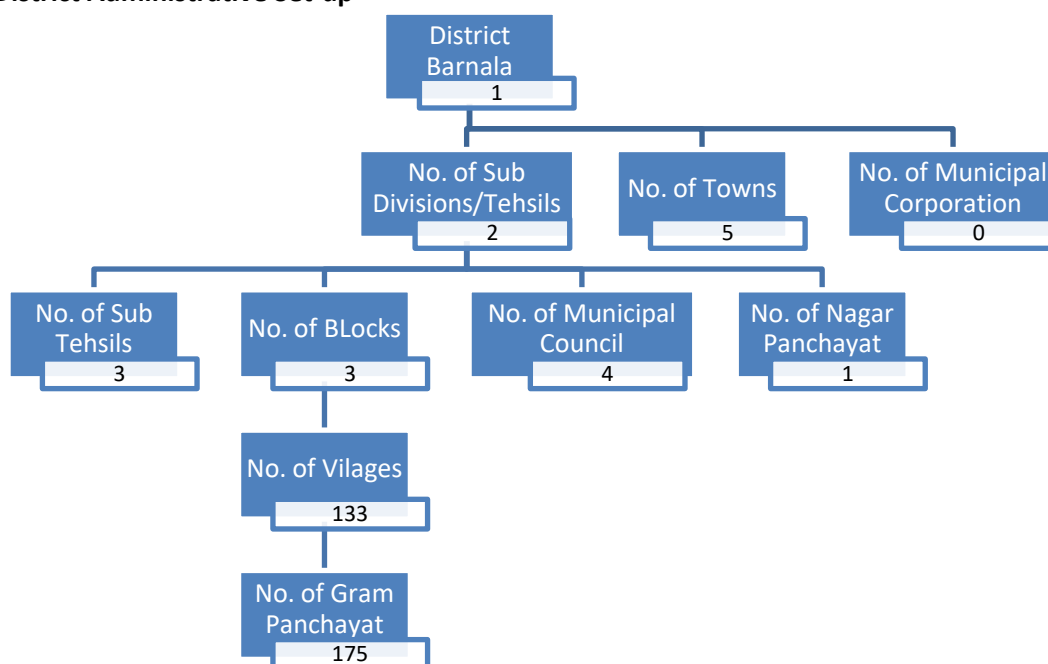
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1.0 District Profile

Barnala is one of the districts of Indian state of Punjab. Earlier, Barnala was part of Sangrur district, but now Barnala is an independent district. It is important city located in Malwa region of South Eastern part of Punjab. Barnala is well known for Dera Baba Gandha Singh, Sardar Sewa Singh Ji Thikriwala was the President of the Riyasat Parjamandal Party during the reign of Maharaja Bhupinder Singh of Patiala and the British. Barnala became a district on 19/11/2006. Total geographical area of the district is 1423 sq. km. It lies between 29 49' and 30 47' north latitude, 75 58' and 76 54' east longitude and is a centrally located district bordered by Ludhiana district on the north, Moga district on northwest, Bathinda district on west and by Sangrur district on all other sides. The city is well connected by roads and is located at a distance of about 175 km towards southwest from Chandigarh. It is about 275 km from Delhi. Barnala district ranks 15th in area and 20th in population.

a. District Administrative Set-up



b. Local institutions

Barnala district is divided into two sub-divisions (tehsils) namely Barnala, Tapa, comprising three-community development blocks viz. Barnala, Sehna and Mahal Kalan for the purpose of administration and 133 no. villages in District Barnala.

c. Natural Resources

▪ Water bodies

There are 05 drains which are passing from the jurisdiction of District Barnala and the same are as under:

Sr. No.	Name of the Drain	R.D. Level
1	Dhanaula Drain	0-125500
2	Upper Lissara Nallah	0-145500
3	Kurar Drain	0-121000
4	Tallewal Drain	0-194000
5	Sehna Drain	33000-62000

- The treated trade effluent generated from the process of M/s Trident Ltd. (PCD Division) & M/s Trident Ltd. (HTD Division) situated at village Dhauila, Tehsil & District Barnala is being discharged into Dhanaula drain @ 8700 KLD & 6702 KLD respectively, which ultimately leads to Lissara drain. The industry has obtained permission from the Department of Irrigation for discharge of said treated trade effluent into the drain subject to the condition that the treated effluent will meet the presented standards.
- Dhanaula & Handiaya Towns are located on Dhanaula drain and the untreated wastewater of these towns is being discharged into Dhanaula drain, which ultimately leads to Lissara drain. The treated wastewater of Barnala town is being discharged into Lissara drain after treatment through STP of capacity 20 MLD installed near Bajakhana Road, Barnala and wastewater of Tapa town is also discharged into Lissara drain. Bhadaur town is located on Sehna drain and the untreated wastewater of the town is discharged into Sehna drain. The identification of various source of pollution including sullage/sewage of villages and any other source in different drains is required to be mapped.
- **Availability of water bodies resources**

The major source is ground water. However, as per CGWA report the ground water development in 03 blocks namely Mehal Kalan, Sehna & Barnala of the District have been categorized as over exploited for control and regulation in Ground Water. The net annual ground water availability of District is 61518 ham.

▪ **Forest coverage**

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

Geographic Area (GA) in Sq. Km	2019 Assessment				% of Geographical Area
	Very Dense Forest	Mod. Dense Forest	Open Forest	Total	
1,482	0.00	1.00	7.33	8.33	0.56

d. Geography & Demography

The geography & demography of District Barnala & State of Punjab is as under:

Sr. No.	Title	District Barnala	Punjab State
1.	Area (Sq. Km)	1,482	50,362
2.	Population (in Lakh)	5.95	277.04
3.	Rural Population (in Lakh)	4.04	173.2
4.	Urban Population (In Lakh)	1.90	103.84
5.	% Increase in Population (2001-2011) Decimal Growth rate	13.02	13.55
6.	Density of Population (per Sq km)	402	550
7.	Literacy %	67.82	76.7
8.	Sex Ratio (Per 1000)	876	893

e. Land-use pattern

Sr . No.	Title	Data of District Barnala (in ha)
1.	Geographical area	148.0
2.	Cultivated area	124.5
3.	Forest area	1.7
4.	Land under non-agricultural use	12.5
5.	Permanent pastures	0.1
6.	Cultivated wasteland	0.1
7.	Land under Misc. tree crops and groves	1.0
8.	Barren and un cultivated land	0.7
9.	Current fallows	0.3

10.	Other fallows	0.7
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f. Climate

The climate of Barnala district can be classified as tropical steppe, semi-arid and hot which is mainly dry with very hot summer and cold winter except during monsoon. There are four seasons in a year. The hot weather season starts from mid March to last week of the June followed by the south west monsoon which lasts upto September. The transition period from September to October forms the post monsoon season. The winter season starts late in November and remains upto first week of March.

The normal monsoon and annual rainfall of the district is 434mm and 504mm, respectively which is unevenly distributed over the area 29 days. The south west monsoon, sets in from last week of June and withdraws in end of September, contributing about 81% of annual rainfall. July and August are the wettest months. Rest 19% rainfall is received during non-monsoon period in the wake of western disturbance and thunderstorms. Generally rainfall in the district increases from southwest to northwest.

The mean minimum and maximum temperature in the area ranges from 7.1°C to 40.4°C during January and May or June respectively.

ACTION PLAN

WASTE MANAGEMENT PLAN

1. 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.	MC, Barnala	31	24490	116000	29.5
2.	MC, Bhadaur	13	4060	18509	4
3.	MC, Tapa	15	6775	23242	4
4.	NP, Handiaya	13	2770	12509	3
5.	MC, Dhanaula	13	3840	19488	4
	Total	85	41930	189748	42.8

Sr no.	Local Bodies	No of Village panchayats / Blocks	No of Households	Population	Solid Waste Generated per day (MT)
1.	No of Villages Panchayats	175	75591	404048	107

b. Identification of gaps and Action plan:

S. No.	Action points For villages / blocks/town municipalities /City corporations	Identification of gap	Action Plan	Responsible agencies	Timeline for completion of action plan
1.	Segregation				
I.	MC, Barnala	Achievement-100% Gap – Nil	✓ To maintain 100% segregation all the times.	EO, Barnala	Regular activity
II.	MC, Tapa	Achievement-100% Gap – Nil	To maintain 100% segregation all the times.	EO, Tapa	Regular activity
III.	MC,Dhanaula	Achievement-100% Gap – Nil	✓ To maintain 100% segregation all the times.	EO, Dhanaula	Regular activity
IV.	MC,Bhadaur	Achievement-100% Gap – Nil	✓ To maintain 100% segregation all the times.	EO, Bhadaur	Regular activity
V.	NP,Handiaya	Achievement-100% Gap – Nil	✓ To maintain 100% segregation all the times.	EO, Handiaya	Regular activity

VI.	Villages of District Barnala	Segregation not be carried out in villages	Yet to prepare.	DDPO	Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 = 15 GPs By 31.12.23 = 35 GPs By 31.12.24 = 35 GPs By 31.12.25 = 45 GPs By 31.12.26 = 45 GPs
2	Sweeping				
(i)	Manual Sweeping				
I.	MC, Barnala	Achievement - 100 % Gap: Nil	To maintain 100 % sweeping all the times	EO, Barnala	Regular activity
II.	MC, Tapa	Achievement - 100 % Gap: Nil	To maintain 100 % sweeping all the times	EO, Tapa	Regular activity
III.	MC, Dhanaula	Achievement - 100 % Gap: Nil	To maintain 100 % sweeping all the times	EO, Dhanaula	Regular activity
IV.	MC, Bhadaur	Achievement - 100 % Gap: Nil	To maintain 100 % sweeping all the times	EO, Bhadaur	Regular activity
V.	NP, Handiaya	Achievement - 100 % Gap: Nil	To maintain 100 % sweeping all the times	EO, Handiaya	Regular activity
(ii)	Mechanical Road Sweeping & Collection	Only required by MC Barnala and same had already been purchased and in use	To maintain 100 % sweeping all the times	EO Barnala	Regular activity
(iii)	Villages Panchayat (175)	Achievement- 10% Gap- 90%	More manpower is being deployed.	DDPO	31.10.2028 By 31.10.2022 = 15 GPs By 31.10.2023 = 25 GPs By 31.10.2024 = 25 GPs By 31.10.2025 = 30 GPs By 31.10.2026 = 30 GPs By 31.10.2027 = 30 GPs By 31.10.2028 = 20 GPs

3	Waste Collection				
(i)	100% collection of solid waste	<ul style="list-style-type: none"> 100% D to D is achieved by all MCs/NPs Village panchayats = Not adequate 	<ul style="list-style-type: none"> To maintain 100% D to D by ULBs Action plan is yet to be prepare 	<ul style="list-style-type: none"> ULBs DDPO 	<ul style="list-style-type: none"> Regular activity Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 =15 GPs By 31.12.23=35 GPs By 31.12.24 =35 GPs By 31.12.25 =45 GPs By 31.12.26 =45 GPs
(ii)	Arrangement for door to door collection	<ul style="list-style-type: none"> By providing waste collection trolleys & tricycle in each ward of MC/NP Village Panchayats (175) = Not adequate 	<ul style="list-style-type: none"> As per requirement, manpower and mechanical arrangements will be increased to ensure 100% D to D collection. Action plan is yet to be prepared for arrangements of D to D collection. 	<ul style="list-style-type: none"> ULBs DDPO 	<ul style="list-style-type: none"> Regular activity Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 =15 GPs By 31.12.23=35 GPs By 31.12.24 =35 GPs By 31.12.25 =45 GPs By 31.12.26 =45 GPs
(iii)	Waste Collection trolleys with separate Compartments	<ul style="list-style-type: none"> Waste is being collected through tricycles provided with compartments In villages Required – 525 	<ul style="list-style-type: none"> As per requirement, waste collection trolleys will be increased to ensure 100% D to D collection and segregation. In villages – Action plan is yet to be 	<ul style="list-style-type: none"> ULBs DDPO 	<ul style="list-style-type: none"> Regular activity Preparation of action plan

		Available - Nil	prepare.		30.06.2022 Implementation of Action Plan By 31.12.22 =15 GPs By 31.12.23=35 GPs By 31.12.24 =35 GPs By 31.12.25 =45 GPs By 31.12.26 =45 GPs
(iv)	Mini Collection Trucks with separate compartments	<ul style="list-style-type: none"> • Adequate • In villages – not adequate 	<ul style="list-style-type: none"> • As per requirement, waste collection trucks will be increased to ensure 100% D to D collection and segregation. • In villages – Action plan is yet to be prepare. 	<ul style="list-style-type: none"> • ULBs • DDPO 	<ul style="list-style-type: none"> • Regular activity Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 = 15 GPs By 31.12.23 = 35 GPs By 31.12.24 = 35 GPs By 31.12.25 = 45 GPs By 31.12.26 = 45 GPs
(v)	Waste Deposition centers (WDC) (for domestic hazardous wastes)				
I.	MC, Barnala	Required – 2 Installed – 2 Gap – Nil	The domestic hazardous waste collected from house to house is being stored at MRF site and finally disposed off either to Common Bio-Medical Waste Treatment Facility or Common Hazardous Waste Management Facility.	EO, Barnala	Activity completed

II.	MC, Tapa	Required – 1 Installed – 1 Gap – Nil	The domestic hazardous waste collected from house to house is being stored at MRF site and finally disposed off either to Common Bio-Medical Waste Treatment Facility or Common Hazardous Waste Management Facility	EO, Tapa	Activity completed
III.	MC, Dhanaula	Required – 1 Installed – 1 Gap – Nil	The domestic hazardous waste collected from house to house is being stored at MRF site and finally disposed off either to Common Bio-Medical Waste Treatment Facility or Common Hazardous Waste Management Facility	EO, Dhanaula	Activity completed
IV.	MC, Bhadaur	Required – 1 Installed – 1 Gap -	The domestic hazardous waste collected from house to house is being stored at MRF site and finally disposed off either to Common Bio-Medical Waste Treatment Facility or Common Hazardous Waste Management Facility	EO, Bhadaur	Activity completed

V.	NP, Handiaya	Required – 1 Installed – 1 Gap - Nil	The domestic hazardous waste collected from house to house is being stored at MRF site and finally disposed off either to Common Bio-Medical Waste Treatment Facility or Common Hazardous Waste Management Facility	EO, Handiaya	Activity completed
VI.	Villages Panchayat (175)	Required=175 Installed=0	Action plan is yet to be prepared along-with solid Waste Management.	DDPO& XEN Panchayati Raj	Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 =15 GPs By 31.12.23=35 GPs By 31.12.24 =35 GPs By 31.12.25 =45 GPs By 31.12.26 =45 GPs
4 Waste Transport					
(i)	Review existing infrastructure for waste transport.	MC Barnala Required – 162 Available – 162 Gap – Nil MC Dhanaula Required – 20 Available – 20 Gap – Nil MC Tapa Required – 18 Available – 18 Gap – Nil MC Bhadaur Required – 19 Available – 19 Gap – Nil NP Handiaya Required – 17 Available – 17 Gap – Nil	Adequate	MCs/NPs	Activity completed

(ii)	Bulk Waste Trucks / Mechanized vehicles	MC Barnala Required – 12 Available – 12 Gap – Nil MC Dhanaula Required – 1 Available – 1 Gap – Nil MC Tapa Required – 3 Available – 3 Gap – Nil MC Bhadaur Required – 2 Available – 2 Gap – Nil NP Handiaya Required – 1 Available – 1 Gap - Nil	Adequate	MCs/NPs	Activity completed
(iii)	Waste Transfer points	Available & Adequate in all MCs / NPs	-Adequate	MCs/NPs	Activity completed
5 Waste Treatment and Disposal					
(i)	Wet-waste Management: On-site composting by bulk waste generators(Authority may decide on requirement as per Rules)	Initiated	The bulk generators are being identified by visiting them. On site composting pits will be get constructed from bulk generators or agreement with MCs/NPs will be executed for the management of wet waste.	MC/NP & PPCB	Identification – 31.03.2022 Implementation – 31.12.2022
(ii)	Wet-waste Management: Facilities for central Bio-methanation/ Composting of wets waste.				
I.	MC, Barnala	Required - 16 Provided – 16 Gap - Nil	Already provided required no. of compost pits, however, its effective use will be ensured.	EO, Barnala	Activity already completed
II.	MC, Tapa	Required - 28 Provided – 28 Gap - Nil	Already provided required no. of compost pits, however, its	EO, Tapa	Activity already completed

			effective use will be ensured.		
III.	MC, Dhanaula	Required - 35 Provided – 35 Gap - Nil	Already provided required no. of compost pits, however, its effective use will be ensured.	EO, Dhanaula	Activity already completed
IV.	MC, Bhadaur	Required - 25 Provided – 25 Gap - Nil	Already provided required no. of compost pits, however, its effective use will be ensured.	EO, Bhadaur	Activity already completed
V.	NP, Handiaya	Required - 16 Provided – 16 Gap - Nil	Already provided required no. of compost pits, however, its effective use will be ensured.	EO, Handiaya	Activity already completed
VI.	Villages Panchayat	Not Adequate	Plan yet to be prepared	DDPO	Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 = 15 GPs By 31.12.23 = 35 GPs By 31.12.24 = 35 GPs By 31.12.25 = 45 GPs By 31.12.26 = 45 GPs

(iii)	Dry-Waste Management :Material Recovery for dry-waste fraction	Adequate MC Barnala- 2 MC Bhadaur -1 MC Tapa - 1 NP Handiaya -1 MC Dhanaula-1 • Villages Panchayat -Not provided	All MCs/NPs have provided required no. of Material Recovery Facilities Action Plan yet to be prepared	MCs / NPs DDPO	Activity already completed Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 = 15 GPs By 31.12.23 = 35 GPs By 31.12.24 = 35 GPs By 31.12.25 = 45 GPs By 31.12.26 = 45 GPs
(iv)	Disposal of inert and non-recyclable wastes: Sanitary Landfill	NP Handiaya& MC Dhanaula have already identified land for sanitary landfill site and work is yet to be started	Remaining MCs/NPs are in the process of establishing sanitary landfill sites for which DPRs / tendering process is being carried out	MCs / NPs	31.12.2022
(v) Remediation of historic / legacy dumpsite					
I.	MC, Barnala	<ul style="list-style-type: none"> • Total legacy waste = 4200 MT • Waste remediated – 50 MT • Balance – 4150 MT 	The machinery like mechanical trammel, JCB has been purchased and same has been installed at legacy waste dumpsite to remediate the legacy waste.	EO, Barnala	Start date – 30.11.2021 Completion date – 31.12.2022
II.	MC, Tapa	<ul style="list-style-type: none"> • Total legacy waste – 900 MT • Waste remediated – 50 MT • Balance – 850 MT 	The machinery like mechanical trammel, JCB has been purchased and same has been installed at legacy waste dumpsite to remediate the legacy waste.	EO, Tapa	Start date – Already started Completion date – 31.12.2022

III.	MC, Dhanaula	Nil	Not applicable	EO, Dhanaula	Activity already completed
IV.	MC, Bhadaur	<ul style="list-style-type: none"> • Total legacy waste – 900 MT • Waste remediated – 5 • Balance – 895 MT 	The machinery like mechanical trammel, JCB has been purchased and same has been installed at legacy waste dumpsite to remediate the legacy waste.	EO, Bhadaur	Start date – Already started Completion date – 31.12.2022
V.	NP, Handiaya	<ul style="list-style-type: none"> • Total legacy waste = 800 MT • Waste remediated – 10 MT • Balance – 790 MT 	The machinery like mechanical trammel, JCB has been purchased and same has been installed at legacy waste dumpsite to remediate the legacy waste.	EO, Handiaya	Start date – Already started Completion date – 31.12.2022
VI.	Villages Panchayat (175)	Not Started	Scheme for treatment of legacy waste in villages is yet to be prepared accordingly.	DDPO	Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 =15 GPs By 31.12.23=35 GPs By 31.12.24 =35 GPs By 31.12.25 =45 GPs By 31.12.26 =45 GPs
(vi)	Involvement of NGOs	Yes	NGOs shall be identified for the purpose.	MCs/NPs and DDPO	Regular Activity
(vii)	EPR of Producers: Linkage with Producers /Brand Owners	Linkage with Producers /Brand Owners	The producers / brand owners are being pursued to submit the action plan for disposal of plastic waste under EPR.	ULBs	30.06.2022
(viii)	Authorization of Waste Pickers	Yes	As per requirement, authorization of waste pickers will be carried out.	ULBs & DDPO	Regular activity

(ix)	Preparation of own by-laws to comply with SWMRules2016	<ul style="list-style-type: none"> All MCs/NPs have already prepared In village panchayats - yet to prepare. 	<ul style="list-style-type: none"> All MCs/NPs have prepared For village panchayats – Action plan is yet to be prepare. 	<ul style="list-style-type: none"> ULBs DDPO 	<ul style="list-style-type: none"> Activity completed 31.03.2023
(x)	Removal of garbage vulnerable points (GVPs)	No gap	All the identified (GVPs) have been removed by the all MCs/NPs.However a strict watch will be kept to avoid reoccurrence of GVPs	All ULBs	Activity Completed
(xi)	Provision of green belt and boundary wall around solid waste dumping site.	<p>MC Barnala Green Belt – Not provided Boundary Wall - Yes</p> <p>MC Bhadaur Green Belt - Provided Boundary Wall – Provided-</p> <p>MC Tapa Green Belt – Partially Provided Boundary Wall - Provided</p> <p>NP Handiaya Green Belt – Not provided Boundary Wall - Yes</p> <p>MC Dhanaula Green Belt – NA Boundary Wall – NA</p>	The green belt around the boundary wall and construction of boundary wall of remaining MCs/NPs will be stated & completed by 30.03.2022	All MCs/NPs	31.03.2022
(xii)	Providing compartments and GPS tracking in garbage carrying vehicles	All the MCs/NPs have provided compartments & GPS tracking in garbage carrying vehicle.	Already complied with	ULBs	Activity completed
(xiii)	Action Plan for Treatment of leachate generated from legacy waste	Treatment of leachate	Leachate management will be done alongwith Bio-remediation of	MCs/NPs	31.03.2023

	dumpsite. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)		legacy waste.		
(xiv)	Best practices, including setting up of Control Rooms where citizens can upload photos of garbage which may be looked into by the specified representatives of local bodies, at local level as well as State level. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)	No Gap	Swachhata app is widely used by citizens for complaints related to SWM/ SBM, It is resolved and monitored at ULB and state level both.	All Local bodies	Already in place
(xv)	CCTV cameras be installed at dumping sites. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)	None of the MC/NP has installed CCTV camera at dump sites	CCTV cameras will be installed at dumping sites by 31.12.2021	MCS/NPs	31.12.2021
(xvi)	Installation of Piezometer at Dump Site. (Directions of Hon'ble NGT in OA no. 606 of 2018 dated 22.07.2019, 28.02.2019, 14.12.2020)	MC Barnala - Installed MC Bhadaur - Installed MC Tapa – Installed NP Handiaya – Installed MC Dhanaula- Not required	Piezometers at dump sites have already been installed. However, monitoring is being carried out on regular basis.	MCS/NPs	Activity already completed

(xvii)	Carcass should be utilized by adopting rendering process or incineration and priority may be given to carcass utilization plants which are run by adopting rendering process. (Directions of Hon'ble NGT in OA no. 465/2019 dated 15.04.2021	Presently Carcass of dead animals are being given to private contractor by MCs/NPs.	Proposal for utilization of carcass in a scientific manner is under consideration. However, boundary wall, hedges and plantation all around the carcass disposal points will be provided to control nuisance in the area by 31.03.2022.	MCs/NPs	For proposal submission – 31.3.2022 For installation – 30.06.2024
(xviii)	Carcass disposal to be done under the supervision Veterinary/Animal Husbandry Department of the State and the Local Bodies. (Directions of Hon'ble NGT in OA no. 465/2019 dated 15.04.2021	No gap	Carcass disposal will be ensured under the supervision of veterinary doctors.	MCs/NPs	Regular activity
(xix)	Management of waste water and solid waste by the unauthorized colonies / residential complex/commercial complex developed by Pvt. Colonizers.	Inadequate management of solid waste and liquid waste in colonies / commercial complex.	The unauthorized colonies / residential complex/commercial complex projects will be visited to verify the present method of management of solid waste & liquid waste generated from said projects and compliance will be made from said projects, thereafter accordingly.	MCs/NPs	Identification – 31.03.2022 Implementation – 31.03.2023
(xx)	To prepare proposal / scheme for management of solid waste in	Inadequate Management of solid waste in the villages.	Scheme is yet to be prepared.	DDPO	31.10.2022

	the villages either in cluster form or independently in individual villages				
(xxi)	Information Education and Communication (IEC) activities in respect of solid waste.	No gap	The IEC activities in this regard are already being done by the concerned departments. However, more IEC activities will be carried out for creating more awareness for the management of solid waste.	MCs/NPs	Regular Activity
(xxii)	Constitution of District Environment Committee in view of the constitution provisions under article 243 G, 241 W and 243 ZD read with scheduled 11, 12 & 15 of SWM Rules, 2016.	No gap	Constituted by the State Government.	State Government	Activity completed
(xxiii)	Management of carcass in rural area.	Inadequate management of carcass in rural area.	No. of carcasses existing = 127 However, boundary wall, hedges and plantation all around the carcass disposal points will be provided to control nuisance in the area by 31.12.2022.	DDPO	Preparation of action plan 30.06.2022 Implementation of Action Plan By 31.12.22 = 15 GPs By 31.12.23 = 35 GPs By 31.12.24 = 35 GPs By 31.12.25 = 45 GPs By 31.12.26 = 45 GPs
(xxiv)	Dry-Waste Management: Material Recovery for dry-waste fraction (RDF).	Initiated	All MCs/NPs have provided adequate no. of MRFs for the management of dry waste.	MCs/NPs	Regular Activity

(xxv)	Management of Horticulture Waste in MCs.	No Gap	All MCs / NPs have provided adequate no. of compost pits for the management of horticulture waste.	MCs/NPs	Activity completed
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2. 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.	MC, Barnala	2.4
2.	MC, Bhadaur	0.3
3.	MC, Tapa	0.3
4.	NP, Handiaya	0.25
5.	MC, Dhanaula	0.3
	Total	3.55

	Local Bodies	Estimated quantity of Plastic Waste Generated MT/per day
1	Villages Panchayats (175)	2

(b) Identification of gaps and Action plan:

S. No.	Action points For village panchayats/block s/municipalities /corporations	Identification of gap	Action plan	Agencies Responsible	Target time for Compliance
1.	Door to Door collection of dry waste including PW	MCs/NPs Achievement – 100% Gap – Nil Villages Panchayat (175)– not initiated	Already achieved 100 % door to door collection Action Plan is yet to be prepared	MCs/NPs DDPO	Regular activity 31.10.2022 For preparation of Action Plan 31.10.2028 By 31.10.22 = 15 GPs By 31.10.23 = 25 GPs By 31.10.24 = 25 GPs By 31.10.25 = 30 GPs By 31.10.26 = 30 GPs By 31.10.27 = 30 GPs By 31.10.28 = 20 GPs

2.	Facilitate organized collection of PW at Waste transfer point or Material Recovery Facility	<p>MC Barnala Required – 162 Available – 162 Gap – Nil</p> <p>MC Dhanaula Required – 20 Available – 20 Gap – Nil</p> <p>MC Tapa Required – 18 Available – 18 Gap – Nil</p> <p>MC Bhadaur Required – 19 Available – 19 Gap – Nil</p> <p>NP Handiaya Required – 17 Available – 17 Gap – Nil</p> <p>Village Panchayats (175)-</p>	<p>All MCs/NPs have installed required no. Material Recovery Facilities (MRF).</p> <p>Action plan yet to be prepared</p>	<p>MCs/NPs</p> <p>DDPO</p>	<p>Activity completed</p> <p>Preparation of action plan 30.06.2022</p> <p>Implementation of Action Plan</p> <p>By 31.12.22 = 15 GPs</p> <p>By 31.12.23 = 35 GPs</p> <p>By 31.12.24 = 35 GPs</p> <p>By 31.12.25 = 45 GPs</p> <p>By 31.12.26 = 45 GPs</p>
3.	PW collection Centres	<p>MC Barnala Required – 2 Available – 2 Gap – Nil</p> <p>MC Dhanaula Required – 1 Available – 1 Gap – Nil</p> <p>MC Tapa Required – 1 Available – 1 Gap – Nil</p> <p>MC Bhadaur Required – 1 Available – 1 Gap – Nil</p>	<p>All MCs/NPs have installed required no. Material Recovery Facilities (MRF).</p>	<p>MCs/NPs</p>	<p>Activity completed</p>

		NP Handiaya Required – 1 Available – 1 Gap – Nil			
4.	Awareness and education programs implementation	No Gap	Awareness is being created amongst the public by organizing seminars, through school children, by providing banners at prominent places of the city etc. The MCs/NPs are conducting meetings with owners of hotels / restaurants / marriage palaces to eliminate single use plastic.	MCs/NPs	Regular activity
5.	Access to Plastic Waste Disposal Facilities	MC Barnala executed an agreement with Max Specialty Films to purchase / collect any kind of plastic / garbage.	The use of plastic waste in road construction and in industrial sector like pyrolysis plants, recyclers etc. is being made by remaining MCs/NPs.	MCs/NPs	Regular Activity
	Plastic Industry Registration. Total no. of plastic unit required registration. Total no. of plastic unit obtained registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	Total units – 4 Registration obtained – 3 Gap - 1	The industrial units who are not registered under plastic rules are being pursued for obtaining registration by the Board	PPCB	30.06.2022

7.	Development and setting up of infrastructure for segregation, collection, storage, transportation, Processing, and disposal of Plastic Waste either on its own for by engaging agencies or producers. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	Inadequate disposal arrangement of plastic waste	<ul style="list-style-type: none"> • PMIDC came into contract with one agency MAX speciality Films in this regard to purchase/collect any kind of plastic garbage from the ULBs. • PMIDC coordinated with PWD and Mandi Board to utilize plastic waste in Roads. • More effective Disposal facility needs to be engaged under guidance of PMIDC 	MCs / NPs	31.03.2022
8.	Framing of bye-laws incorporating the provisions of Plastic Waste Management Rules, 2016. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	ULBs- Already made Rural areas- yet to frame	MCs/NPs already framed Rural Panchayats = yet to prepared	MCs/NPs and DDPO	Activity already completed 31.10.2022
9.	Set up, operationalize and co-ordinate for Plastic Waste management in Rural area. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	Inadequate	Proposal is yet to be prepared	DDPO	Preparation of proposal - 30.10.2022 Implementation - 30.06.2024 in stages

10.	Ban on non-recyclable single use polythene bags. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	ULBs- Initiated	Ban has been already imposed by the State Govt., on sale, purchase, manufacturing and stock of plastic carry bags. The MoEF& CCP vide its notification dated 12.08.2021 has banned Single use plastic with effect from 1.07.2022. Further, the guidelines of the Centre and State Govt., regarding banning of single use plastic will be complied with.	ULBs & PPCB	Activity already completed
11.	Segregation, collection, storage, transportation of plastic waste and channelizing of recyclable plastic waste fraction to recycler having valid registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	No gap.	Recyclable plastic waste is collected, transported and stored separately by all ULBs. Currently such plastic is being stored at MRF.	ULBs	Activity already completed
		In Villages – not adequate.	Action plan is yet to be prepared	DDPO	Preparation of proposal - 30.10.2022 Implementation - 30.06.2024 in stages
12.	Awareness to the waste generator to take steps to minimize the plastic waste and segregate plastic waste at source. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	No Gap	Awareness is being carried out on regular basis by organizing camps.	ULBs & DDPO	Regular activity

13.	Encouragement to the education institute to take up waste management in their curriculum and create student project for waste recycling. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	No gap	Already being followed and seminars are being organized.	DEO (Primary & Secondary)	Regular activity
14.	Directions to Gram Panchayat to perform functions such as ensuring segregation, collection, storage, transportation, plastic waste and channelization of recyclable plastic waste fraction to recyclers having valid registration. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	Disposal of plastic waste in villages.	Directions are already been given to Gram Panchayat through BDPO's ensuring segregation, collection, storage, transportation, plastic waste and channelization of recyclable plastic waste fraction to recyclers having valid registration.	DDPO	Regular activity
15.	Creating awareness among all stakeholders about their responsibilities, and ensuring that open burning of plastic waste does not take place. (Directions of Hon'ble NGT in EA no. 13/2019 dated 08.01.2021)	No gap	All stakeholders are being made aware regarding their responsibility regarding burning of plastic waste. Action against violators is also being taken as per rules.	All local bodies	Regular activity
16.	To ensure proper plastic waste management, industries may be directed to explore the	Initiated	Instructions are being given to the industries regularly to explore the	PPCB	Regular activity

	<p>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)</p>		<p>possibility of use of plastic waste in a scientific manner like in road construction etc. in consultation with research institutes.</p>		
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3. C & D Waste Management

▪ a. Current status related to C & D Waste

Details of Data Requirement	Present Status
Total C & D waste generation in MT per day (As per data from Municipal Corporations / Municipalities)	MC Barnala – 0.5 MT MC Tapa – 0.3 MT MC Dhanaula – 0.3 MT NP Bhadaur – 0.3 MT NP Handiaya – 0.3 MT Total - 1.7MTD
Does the District has access to C&D waste recycling facility?	No

b. Identification of gaps and Action plan:

S. No.	Action points for blocks / town municipalities / City corporations	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Arrangement for separate collection of C&D waste to C&D waste deposition point.	All the MCs/NPs have already identified sites and made operational for separate collection of C & D waste except MC Barnala	MC Barnala is in the process of identifying the site for separate collection of C & D site as the earlier site had been used for some other purpose.	MC Barnala	30.06.2022
2.	Whether local authority have fixed user fee on C&D waste and introduced permission system for bulk waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month?	No gap	Already fixed	MCs/NPs	Activity completed
3.	C&D recycling Facility	Presently, there is no C&D recycling facility in the District Barnala.	Department of Urban Development is preparing proposal for installation of recycling facility.	ADC (UD)	<ul style="list-style-type: none"> Preparation of proposal 31.03.2022 Implementation - 30.04.2023

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

4. Biomedical Waste Management

a. Current Status related to biomedical waste

Inventory of BMW in the District	Quantity
Total no. of Bedded Healthcare Facilities	79
Total no. of non-bedded HCF	182
No. of HCFs authorized by SPCBs/PCCs	261
No of Common Biomedical Waste Treatment and Disposal Facilities (CBWTFs)	0
Capacity of CBWTFs	NA
No. of Deep burials for BMW if any	0
Quantity of biomedical waste generated per day	113 kg/day
Quantity of biomedical waste treated per day	113 kg/day

b. Identification of gaps and Action plan:

S. No.	Action points	Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory and Identification of Healthcare Facilities	HCFs have been identified and inventorized.	Regular camps are being organized to pursue the HCFs to obtain the authorization. Also, identification of new HCFs is being carried out on regular basis.	PPCB	Regular activity
2.	Adequacy of facilities to treat biomedical waste	Bio medical waste is being got lifted by HCFs to CBMWTF. Thus, no gap.	The bio-medical waste of Distt. Barnala is being lifted by CBWTF, Ludhiana for treatment.	PPCB	Regular activity
3.	Tracking of BMW	No gap	Bar code system has already been implemented by all HCFs and CBWTFs. Also, the bio-medical waste carrying vehicles are equipped with GPS system and being monitored on regular basis.	PPCB	Activity completed

4.	Awareness and education of healthcare staff	No gap	Training programmes are being organized for all stakeholders from time to time.	PPCB & HCFs	Regular activity
5.	Adequacy of Funds	Adequate	Pvt. HCFs – Funds available Govt. HCFs – Funds are arranged from time to time as per requirement.	CMO	Regular activity
6.	Compliance to Rules by HCFs and CBWTFs	Total HCFs – 261 Complying – 261 Gap - Nil	The HCF are being visited by PPCB to check the compliance of BMW Rules. The HCFs are being pursued to install ETP cum STP in their premises to treat wastewater	PPCB & HCF	31.03.2022
7.	District Level Monitoring Committee	No gap	Meetings are taken almost on monthly basis by District Environment Committee.	District Administration & PPCB	Regular activity
8.	Wastewater Treatment	<ul style="list-style-type: none"> • Total HCFS Required ETP = 79 • Total HCF install ETPs = 3 • Gap = 76 	HCFs are being pursued to install the wastewater treatment facility. The meetings are being held association level to get the compliance from HCFs.	PPCB	31.03.2022
9.	Disposal of radioactive materials. With the proliferation of radiotherapy, nuclear medicine, X Rays, CT Scans and other equipment's using radioactive materials. (Directions of Hon'ble NGT in OA no. 710 of 2017 dated 18.01.2021)	No gap	<ul style="list-style-type: none"> • Most of the Hospitals now have provided the digital X-Ray, hence no such waste is generated from digital X-ray. • The Hospitals which have not provided the digital x-ray machine have made the agreement with the authorized agency for the disposal of its waste. 	Health department	Activity Completed

5. Hazardous Waste Management

a. Current Status related to Hazardous Waste Management

Details of Data Requirement	Present Status
No of Industries generating HW	15
Quantity of HW in the district (MT/Annum)	36.145 MTD
(i) Quantity of Incinerable HW (MT/Annum)	0.05 MTD
(ii) Quantity of landfillable HW(MT/Annum)	0.61 MTD
(iii) Quantity of Recyclable / utilizable HW (MT/Annum)	35.482 MTD
No of captive/common TSDF	0
Contaminated Sites or probable contaminated sites	0

b. Identification of gaps and action plan:

Sr. No.	Action points	Identification of Gaps	Action Plan	Responsible agency	Timeline for completion of action plan
1.	Regulation of industries and facilities generating Hazardous Waste	The hazardous waste generating industries have already been identified and inventorized.	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.	PPCB	Regular activity
2.	Establishment of collection centres	No gap.	The industries generating hazardous waste have already executed an agreement with TSDF and authorized recyclers for disposal of hazardous waste. However, a continuous follow up will be made to rule out unscientific disposal of hazardous waste by the industrial unit	PPCB	Regular activity

3.	Training of workers involved in handling / recycling / disposal of HW	No gap	The workers are being trained time to time for the management and handling of hazardous waste in industrial units.	Department of Industries and PPCB	Regular activity
4.	Availability / Linkage with common TSDF or disposal facility	No gap.	The hazardous waste generating industries have already executed an agreement with TSDF and authorized recyclers for lifting of hazardous waste from their premises. However, new identification of hazardous waste generating industries is being carried out regularly.	PPCB	Regular activity
5.	Contaminated Sites	Nil	NA	NA	NA

6. E-Waste Management

a. Current Status related to E-Waste Management

Details of Data Requirement	Present Status
Inventory of E-Waste in MT/year	Not available
Collection centers established by ULBs in the District	1
Collection centers established by Producers or their PROs	4
No authorized E-Waste recyclers /Dismantler	0

b. Identification of gaps and action plan:

S. No.	Action points	Gaps in implementation	Action Plan	Responsible agency	Timeline for completion of action plan
1	Inventory / Generation of E-Waste / Bulk-waste generators	Inventorization of E-Waste / bulk waste generator is under process.	To inventorize / identify all the e-waste generating establishments and bulk generators.	PPCB	30.06.2022
2	E-Waste collection points	Available – 4	Already established	PPCB	Activity completed
3	Linkage among Stakeholders to channelize E-Waste	Linkage among Stakeholders is being done	Work under progress	MC/NP	31.12.2022
4	Regulation of Illegal E-Waste recycling /dismantling	Surprise visits will be made to identify illegal e-waste recyclers / dismantlers	This is a continuous activity and will be complied with.	District Administration & PPCB	Regular activity
5	Integration of informal sector	Survey is yet to be carried out.	Being prepared.	District Administration & PPCB	31.12.2022
6	Awareness and Education	Special workshops and awareness campaigns through Producers/PROs is being carried out	Already carried out	District Administration & PPCB	Regular activity
7.	Identification of Producers who have not obtained, EPR Authorization (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	This is a continuous activity and will be followed.	Already carried out	SPCBs/ PCCs/Custom department	Regular activity

8.	Verification of quantity of e-waste collected by producers (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	This is a continuous Activity. All the EPR Authorized Producers will be verified.	Will be complied with.	PPCB	Regular activity
9.	Verification of systems provided by producers for collection and channelization of e-waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	This is a continuous activity. All the EPR authorized producers will be verified.	Will be complied with.	PPCB	Regular activity
10.	Verification of facilities of dismantlers and recyclers for their infrastructure and records. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	This is a continuous activity. All the dismantlers/recyclers will be verified.	Will be complied with.	PPCB	Regular activity
11.	Checking of informal trading, dismantling, and recycling of waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Quarterly drive will be carried out checking of this activity.	Will be complied with.	District Administration/ PPCB	Regular activity
12.	Governance framework for monitoring compliance. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Regular Monitoring will be carried out to check the compliance.	Will be complied with.	District administration/PPCB.	Regular activity
13.	Capacity building at district level. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Workshops/seminars to educate functionaries is being organized on regular basis.	Will be complied with.	District Administration, PPCB & Local bodies.	Regular activity
14.	IEC plan be firmed up and executed. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	IEC plan has been prepared by state and being implemented in all ULBs widely.	Will be complied with.	District Administration, PPCB & Local bodies.	Regular activity

15.	Strengthen system of enforcement. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Being carried out from time to time.	Will be complied with.	District Administration, PPCB & Local bodies	Regular activity
16.	Allocation of proper space to the existing and upcoming industrial units for e-waste dismantling and recycling. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Not applicable	There is no focal point in District Barnala, hence not applicable.	PSIEC	Under consideration.
17.	Recognition and registration of workers involved in dismantling and recycling, undertake industrial skill development activities for the workers involved in dismantling and recycling. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	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	Will be complied with.	Labour Department	Regular Activity
18.	Annual monitoring to ensure health and safety of workers involved in such activities. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Will be Ensured on Annual basis.	Will be complied with.	Director of Factories	Regular Activity
19.	Separate waste deposition centers for domestic E-waste which helps in easy segregation of E-waste. (Directions of Hon'ble NGT in OA no. 512/2018 dated 15.01.2021)	Already completed	Will be complied with.	All Local Bodies	Activity completed.

3.0 Air Quality Management

a. Current Status related to Air Quality Management

Details of Data Requirement	Present Status
Number of Automatic Air Quality monitoring stations in the district.	
- Operated by SPCB / State Govt / Central govt./ PSU agency :	0
- Operated by Industry:	0
Number of manual monitoring Stations operated by SPCBs	1
Name of towns / cities which are failing to comply with national ambient air quality stations	0
No. of air pollution industries	484
No. of units installed APCD	484
Status of Air consent	484 (once granted)
Prominent air polluting sources	Industry, Brick Kiln, Unpaved Roads, Burning of Waste Stubble & Vehicular pollution.

b. Identification of gaps and action plan:

S. No.	Action points	Indicative Action Plan	Responsible agency	Timeline for completion of action plan.
1.	Identification of prominent air polluting sources?	Small scale Industry (brick kiln & rice sheller), Unpaved Roads, Burning of Waste Stubble & Vehicular pollution.	PPCB, PWD & Agriculture Department	Regular activity
2.	Ambient Air quality data?	One no. air quality monitoring stations has already been installed at village Aspal Khurd, Distt. Barnala. The data of said stations is being uploaded on official website of PPCB on regular basis.	PPCB	Regular Activity
3.	Setting up of Continuous Ambient Air Quality Monitoring Station (CAAQMS)	At present, there is no proposal for installation of CAAQMS at District Barnala as this district does not falls in the list of non-attainment cities.	PPCB	Not yet prescribed
4.	District Level Action Plan for Air Pollution	District Barnala does not falls in the list of non-attainment cities. Hence not applicable.	PPCB	Not yet prescribed

5.	Hotspots of air pollution in District	District Barnala does not falls in the list of non-attainment cities. Hence not applicable.	PPCB	Not yet prescribed
6.	Awareness on Air Quality	Awareness is being carried out on regular basis. The data of air quality monitoring station is also uploaded on official website of PPCB to create awareness to the public. Weblink: ppcb.gov.in/en/air-quality	PPCB	Regular activity
7.	Conversion of Natural Draft Brick Kilns to Induced Draft Brick Kilns	All the operational brick kilns have already been converted into induced draft technology	PPCB	Activity already completed
8.	Maintain pothole free roads / timely patchwork on roads	Patchwork of roads is a continuous process. As and when potholes are developed, the same are got repaired as soon as possible.	PWD	Regular activity
9.	Procurement of Mechanical sweeping machines	MC Barnala has already purchased one no. mechanical sweeping machine.	MC Barnala	Activity already completed
10.	Plantation of trees along highways, drains, Nallahs in colonies and canals etc.,	Plantation is being carried out from time to time.	MCs/NPs	Regular activity
11.	Greening of parks, open areas, community places, schools and housing societies	Plantation drive will be carried out on regular basis to have a more plantation at different locations.	PPCB, Forest Dept.	Regular activity
12.	Kaccha/Brick Paved Roads to be made Pucca roads	The Paved roads/kaccha roads will be converted into pucca roads in each ULBs.	MCs/NPs	30.06.2022
13.	Existing roads requiring recarpeting	The roads of ULBs presently are in good condition. The re-carpeting will be done as and when required.	MCs/NPs	Regular activity
14.	Public awareness campaign for control of vehicular emissions	The camps are being organized on regular basis. Facebook, Twitter & Instagram) is also being used to spread traffic awareness. Quarterly camp will be organized for awareness.	Traffic Police, Transport Department	Regular activity
15.	Extensive drive against polluting vehicles	This drive against polluting vehicles has already been initiated by the Police department.	Traffic Police	Regular activity
16.	Prevention parking of vehicles in non-designated areas by enforcement actions	This drive has already been initiated by the Police department to prevent parking of vehicles in non-designated areas. Challans are also been issued to the violators.	Traffic Police	Regular activity

17.	Phasing out commercial diesel vehicles more than 15 years old	Scheme under consideration.	Transport	31.12.2022
18.	Promotion of E-Vehicles	Promotion of E-vehicles is being carried out.	Transport	Regular activity
19.	Infrastructure development for additional of CNG based autos/taxis	Infrastructure will be developed to promote CNG based autos/taxis. Also IEC activities will be carried out to create awareness in this regard.	DFSC	31.03.2022
20.	Control of open burning of bio-mass.	Regular monitoring is being done in each ULB.	MCs/NPs	Regular activity
21.	Dissemination of Air Quality Index by installing CAAQMS	At present, there is no proposal for installation of CAAQMS at District Barnala as this district does not falls in the list of non-attainment cities.	PPCB	Not yet prescribed
22.	Dissemination of Air Quality Index by installing display boards in the city	At present, there is no proposal for installation of CAAQMS at District Barnala as this district does not falls in the list of non-attainment cities.	PPCB	Not yet prescribed
23.	Quality Management Division(AQMD) at PPCB (HQ)Establishment of an Air	Work is under progress.	PPCB,	31.12.2021
24.	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
25.	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 will be done by public participation mode.	Department of forest	Regular Activity
26.	For development of plantation along the highways.	This derive will be carried out on regular basis for development of plantation along the highways.	PWD & Deptt. of Forest	Regular Activity
27.	Steps to be taken for management of agriculture waste/residue	<ul style="list-style-type: none"> In order to management of agriculture waste / residue, Deptt. of Agriculture is providing machines to the farmers by giving subsidy on the rates. IEC activities like farmer training camps, Hoarding and field demonstrations are also being carried out to spread the awareness amongst the farmers. 	Agriculture department	Regular Activity.

4.0 Water Quality Management

4.1 Water Quality Monitoring

a. Current Status related to Water Quality Management

Details of Data Requirement	Present Status
Rivers	0
Length of Coastline (if any)	0
Nalas/ Drains/Creeks meeting Rivers	0
Lakes / Ponds	308
Total Quantity of sewage from towns and cities in District	28 MLD
Quantity of industrial wastewater	32.468 MLD
Percentage of untreated sewage	43 %
Details of bore wells and number of permissions given for extraction of groundwater	No of Borewell =38823
Groundwater polluted areas if any	0
Polluted river stretches if any	0

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

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Inventory of water bodies	The inventory of water bodies has already been made by the concerned department. Weblink: irrigation.punjab.gov.in	Drainage Deptt.	Regular activity
2.	Quality of water bodies in the district	The monitoring of drains is being carried out and data is being maintained.	Department of Irrigation, DDPO and PPCB	Regular activity
3.	Hotspots of water contamination	Being identified.	PPCB	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 drains/Nallah. Patrolling along the drains is also being carried out by the concerned departments to rule out the disposal of solid waste in an around water bodies.	MCs/NPs & Deptt. of Drainage.	Regular activity

5.	Inventory of sources of water pollution	Source of pollution into drains / nallahs is being identified. New source of pollution are also being identified.	MCs/NPs, Drainage department.	Regular Activity
6.	Oil spill disaster management (for coastal districts)	NA	NA	NA
7.	Protection of flood plains	NA	NA	NA
8.	Rejuvenation of groundwater	Action plan for Rain water harvesting has already been prepared by CGWA. Weblink: www.cgwb.gov.in	CGWA	Regular Activity
9.	Complaints redressal system	Mobile App/Online Complaints redressal system already developed. Weblink: publicgrievance.gov.in	PPCB	Activity completed

4.2 Domestic Sewage

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

Details of Data Requirement	Present Status
No of Class-II towns and above	4 no. (Handiaya, Bhadaur, Tapa, Dhanaula)
No of Class-I towns and above	1 no. (Barnala)
No. of Towns STPs installed	1 no. (Barnala) , 20 MLD
No. of Towns needing STPs	4 no. (Handiaya, Bhadaur, Tapa, Dhanaula)
No. of ULBs having partial underground sewerage network	5 no. (Barnala, Handiaya, Bhadaur, Tapa, Dhanaula)
No. of towns not having sewerage network	Nil
Total Quantity of Sewage generated in District from Class II cities and above	28 MLD
Quantity of treated sewage flowing into Rivers (directly or indirectly)	16 MLD
Quantity of untreated or partially treated sewage (directly or indirectly)	12 MLD
Quantity of sewage flowing into lakes	0
Total available Treatment Capacity	20 MLD

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

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Sewage Treatment (STPs)	MC Barnala STP of capacity 20 MLD has already installed and made operational.	MC and PWSSB	Activity already completed
		MC Tapa STP of capacity 5 MLD is under installation. About 20 % civil work has already been completed.	MC and PWSSB	31.03.2023
		MC Bhadaur The work of STP of capacity 3 MLD is yet to start. No bids were received by the PWSSB and tender has been recalled by the department.	MC and PWSSB	31.03.2023
		NP Handiaya The work of STP of capacity 2 MLD is yet to start. No bids were received by the PWSSB and tender has been recalled by the department.	MC and PWSSB	31.03.2023
		MC Dhanaula The work of STP of capacity 5 MLD is yet to start. However, DPR has been prepared and tendering process has also been started.	MC and PWSSB	31.03.2023

2.	Underground sewerage network	The status of sewerage network for different towns of Distt. Barnala is as under: Barnala = 80% Bhadaur = 90% Handiaya = 40% Tapa = 90% Dhanaula = 60% The DPR for remaining work has been prepared to complete pending work.	PWSSB	31.12.2022
3.	Setting up of real time water quality monitoring system to monitor the quality of water	There is no river in the jurisdiction of District Barnala. Hence not applicable.	NA	NA
4.	Operation and Maintenance of STPs (i) Arranging funds for operation and maintenance of STPs to ensuring regular operation and maintenance of STPs in a professional manner	Completed, no gap	MC Barnala & PWSSB	Regular activity
	(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	MC Barnala & PWSSB	Activity completed
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	Technology already finalized	DDPO	Activity completed
	(ii) Arrangement of Funds for treatment	For 21 no. of village ponds, funds have been arranged. The work for	DDPO & Xen Panchayati Raj	31.12.2022

	technology in various villages identified in the Action Plan	arrangement of funds for the remaining village is under process.		
	(iii) Reuse of water for agriculture purpose in villages.	For 11 no. of village ponds, irrigation scheme has already been implemented. Work for remaining village ponds is under progress under the MGNREGA Scheme.	DDPO, Soil conservation department & Xen Panchayati Raj.	31.07.2023
	(iv) Proper operation and maintenance of treatment facilities installed in village ponds	In 46 no. of village ponds, operation and maintenance of treatment facilities is being carried out. The work for remaining villages is under progress under the MGNREGA Scheme	DDPO & Xen Panchayati Raj	31.07.2023
6.	(i) Checking of health indices of the inhabitants & maintain database. (ii) Holding awareness camps in the catchment area of River Sutlej to make the public aware regarding water borne diseases	Camps are organized on monthly basis	The Department of Health and Family Welfare	Regular activity
7.	Setting up of additional water bodies/water harvesting structures	Action plan for setting up of additional water bodies/water harvesting structure is yet to be prepared.	MCs/NPs	31.12.2022
8.	Guidelines for control of pollution and enforcement of Environmental Norms in marriage halls, banquet halls, party venues etc. along with consent management system. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	Being implemented as per guidelines framed by CPCB	PPCB	31.12.2022
9.	Installation of ETP in all big units (marriage halls, banquet halls, party venues etc) which are not connected with the sewer lines. (Directions of Hon'ble NGT in OA	Being implemented as per guidelines framed by CPCB	PPCB	31.12.2022

	no. 400/2017 dated 04.02.2021)			
10.	All the units having kitchen should have proper ducting arrangement. The units using DG sets must have the proper stack height. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	Being implemented as per guidelines framed by CPCB	PPCB	31.12.2022
11.	The local authorities/corporations should carry out inventory of the dairy farms and gaushalas. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	Being prepared.	MCs/NPs	30.06.2022
12.	The local bodies/municipal corporations shall publish a public notice in newspapers and on their website for registration of dairy farms and gaushalas as per municipal law. (Directions of Hon'ble NGT in OA no. 400/2017 dated 04.02.2021)	The Public notice will be given in the Newspaper and on the website of local body for registration of dairy farms and gaushalas.	MCs/NPs	31.12.2022
13.	The District Collectors of all the Districts are directed to constitute monitoring committees to monitor the Extraction of Ground Water by the individuals for commercial purposes. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	Such Committees will be constituted	District Administration	31.12.2021

14.	There must be no general permission for withdrawal of ground water, particularly to any commercial entity, without environment impact assessment of such activity on individual Assessment units in cumulative terms covering carrying capacity aspects by an expert committee. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	Noted for compliance and will be assured.	All local bodies & DDPO	Regular activity
15.	All Overexploited, Critical & Sensitive (OCS) assessment units must undergo water mapping. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	Water mapping of all the OCS assessment units has been 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.	Water Resources	Activity Completed
16.	Water Management Plans need to be prepared for all OCS assessment units in the country based on the mapping data, starting with Overexploited blocks. (Directions of Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)	Punjab Government has engaged M/s Mekorot, National Water Company of Israel to formulate the Water Conservation and Management Master Plan for the State of Punjab and their final recommendations is likely to be submitted by December 2021.	Water Resources	31.03.2022
17.	The Water Management Plans, data on water availability or scarcity and policy of CGWA must be uploaded on its website for transparency and public involvement. (Directions of	Noted for compliance and will be assured.	PWRDA	31.03.2022

	Hon'ble NGT in OA no. 176/2015 dated 20.07.2020)			
18.	The District Magistrates have been directed to take up one pond per village for its rejuvenation, this year. (Directions of Hon'ble NGT in OA no. 325/2015 dated 18.11.2020)	A) Till date 100 ponds have been rejuvenated/restored B) Rest 208 will be restored upto 31.12.2022	DDPO	31.12.2022
19.	Active efforts be made in close coordination with technical bodies to tap excess runoff of rivers/canals during rainfall season to recharge old water bodies and retain water in new ponds to be constructed specifically for the purpose (Directions of Hon'ble NGT in OA no. 325/2015 dated 18.11.2020)	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
20.	Land owning agencies must ensure that every water body has unique ID for its identification. There should be retagging of the water bodies to prevent encroachment. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	Already implemented Weblink: https://irrigation.punjab.gov.in/en	Drainage Department	Activity Completed
21.	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)	Being carried out by all ULBs.	Local Bodies	Regular Activity

22.	Installation of STP will be mandatory for all residential apartments/group housing societies where groundwater requirement is more than 20 m ³ /day for getting NOCs. (Directions of Hon'ble NGT in OA no. 496/2016 dated 22.01.2021)	Directions are already being followed.	MCs/NPs	Regular Activity
23.	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 by 31.03.2022.	PWSSB	Time line for Preparation of plan = 31.03.2022. Time line for implementation of plan = 30.09.2022.
24.	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
25.	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 Deputy Commissioner.	District Heads of concerned departments and District Administration.	Regular activity
26.	Appointment of Nodal officer with contact number	All the departments have appointment the Nodal officer and list is attached as Annexure-1	All concerned departments	Completed
27.	Preparation of operational manual of STPs for the effective and efficient operation of the STPs of the state.	Under preparation.	PPCB	Time target: 31.10.2021

28.	Enhancement of capacity of existing ponds/ water bodies and creating of new water harvesting structures.	A. Existing Ponds(Total) = 308 B. No. of Ponds whose Capacity has been enhanced = 100 C. New ponds = Nil Source of Funds above activities: Gram Panchayat Fund, Finance Commission, MGNrega.	DDPO	31.10.2023
29.	Usage of treated sewage for sprinkling purposes for sweeping of roads to control dust pollution.	The treated sewage of District Barnala will be used for sprinkling purposes for sweeping of roads to control dust pollution.	MC Barnala.	Regular activity
30.	Mapping of the rivers and flood plain zones in the catchment area of rivers of the State.	NA	NA	NA
31.	Utilization of STPs sludge	STP sludge is used by the farmers as manure.	MC Barnala	Regular activity
32.	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
33.	Reuse of treated effluent through existing STPs (OA no. 496/2016 dated 22.01.2021)	Only one STP has been installed for Barnala town of capacity 20 MLD. At present, the treated wastewater is discharged into Lissara drain. The irrigation schemes for use of treated wastewater in nearby areas by farmers is being prepared.	Department of Soil conservation, ULBs/PWSSB	31.12.2021
34.	Reuse of treated effluent through proposed STPs (New STPs) (OA no. 496/2016 dated 22.01.2021)	As and when new STPs are installed and made operational, treated waste water will be re-used for irrigation purpose.	Department of Soil conservation, ULBs/PWSSB	Yet to fix
35.	Installation, operation & maintenance of online continuous effluent monitoring system with flow meter as well as CCTV cameras for the existing STPs as well as new STPs to be installed.	One STP of 20 MLD has already been installed and made operational. Installation of OCEMS and CCTV camera with the said STPs is under consideration.	MC Barnala & PWSSB	30.06.2022
36.	Activity w.r.t. In-situ remediation	Proposal Yet to prepare	MCs/NPs	31.12.2022

	technology to be provided in the drains carrying untreated sewage.			
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5.0 Industrial wastewater management

a. Current Status related to Industrial Wastewater Management

Number of Red, Orange, Green and White industries in the District	Red Category unit = 19, Orange Category unit = 569 Green Category unit = 56
No of Industries discharging wastewater	13
Total Quantity of industrial wastewater generated	32.468 MLD
Quantity of treated industrial wastewater discharged into Nalas / Rivers	15.4 MLD
Common Effluent Treatment Facilities	Installed =0 Under installation= 0
No of Industries meeting Standards	Regular activity, as industries are being monitored as per protocol prescribed by CPCB / PPCB
No of Industries not meeting discharge Standards	Regular activity, as industries are being monitored as per protocol prescribed by CPCB / PPCB

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

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Compliance to discharge norms by Industries	Necessary action is being taken against the industries not meeting the standards.	PPCB	Regular activity
2.	Complaint redressal system	Online compliant portal already developed. Weblink: publicgrievance.gov.in	PPCB	Activity complied
3.	Installation of Electromagnetic flow meters at inlet and outlet of ETP.	The water polluting industries have already installed water meters with its ETPs. However, the industries will be visited to ensure its operations and verification of data being maintained by the said industrial unit.	PPCB	30.04.2022
4.	Inspection of units to check compliance	Industrial units are being inspected as per the protocol prescribed by the Board.	PPCB	Regular activity

6.0 Mining Activity Management plan

a. Current Status related to Mining Activity Management

Details of Data Requirement	Existing Mining operations
Type of Mining Activity	No mining activity is carried out in the jurisdiction of district Barnala
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	NA

b. Identification of gaps and action plan:

S. No.	Monitoring of Mining activity	Monitoring of Mining activity	Monitoring of Mining activity	Monitoring of Mining activity
1.	Monitoring of Mining activity	No mining activity is carried out in the jurisdiction of district Barnala	Department of water resources	-
2.	Inventory of illegal mining if any mining	No mining activity is carried out in the jurisdiction of district Barnala	Department of water resources	-
3.	Environment compliance by Mining industry	No mining activity is carried out in the jurisdiction of district Barnala	Department of water resources	-

7.0 Noise Pollution Management plan

a. Current Status related to Noise Pollution Management

Details of Data Requirement	Measurable Outcome
No. of noise measuring devices available with various agencies in district	No of analyzer available= 1

b. Identification of gaps and action plan:

S. No.	Action points	Gaps and Action Plan	Responsible agency	Timeline for completion of action plan
1.	Availability of Sound/Noise Level Meters.	Required – 2 Available – 1 Gap - 1	PPCB & Police Department	30.06.2022
2.	Ambient Noise Level monitoring.	At present, there is no proposal to install Ambient Noise Level Monitoring devices.	PPCB	Not yet decided
3.	Sign boards in Noise zones	Signboards 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.	PPCB, Police Deptt. & District Administration	Activity completed
5.	Checking of pressure horn of vehicles	Regular checking of vehicle is being done by the police department and PPCB.	Police Department & PPCB	Regular activity.

List of Nodal Officers (Annexure-1)

List of the Nodal Officers of the stakeholder Departments

Sr no	Name of the Department	Nodal Officer Name	Designation	Mobile no.	Email Id
1.	District Administration	Sh. Devdarshdeep Singh	Assistant Commissioner (G)	84275-58983	deputycommissioner.bnl@gmail.com
2.	MC Barnala	Sh. Mohit Sharma	EO Barnala	93563-44527	ddlgp.barnala@yahoo.com
3.	MC Tapa	Sh. Bal Krishna	EO Tapa	94170-70070	ddlgeomctapa@yahoo.com
4.	MC Bhadaur	Sh. Bal Krishna	EOBhadaur	94170-70070	bhadaur.mc.13@gmail.com
5.	MC Dhanaula	Sh. Manpreet Sidhu	EODhanaula	95014-62999	mc.dhanaula@gmail.com
6.	NP Handiaya	Sh. Manpreet Sidhu	EOHandiaya	95014-62999	ddlgp_handiaya@yahoo.com
7.	Punjab Pollution Control Board, Regional Office, Sangrur	Er. Simarpreet Singh	AEE	95019-81100	eerosangrur@gmail.com
8.	Regional Transport Authority, Barnala	Sh. Karanvir Singh Chinna PCS	RTA	98724-26400	Dtosangrur13@gmail.com
9.	Police Department	Sh. Jaswinder Singh	Head SI	95014-41688	sspbarnala@yahoo.co.in
10.	District Development and Panchayat Office, Barnala	Sh. Vineet Sharma	DDPO	98883-81300	Ddpo.barnala@yahoo.com
11.	Department of Soil & Water Conservation, Barnala	Sh. Bhupinder Singh	SDSCO	94172-70256	dscosangrur@gmail.com
12.	Department of Water Resources & Drainage, Barnala	Baljit Singh Thind	SDO	99880-07635	sdepwssbbarnala@gmail.com
13.	PWD (B&R), Barnala	Sh. Kamaljit Singh Brar	Executive Engineer	99888-17007	xenpwdbarnala@yahoo.com

14.	Superintending Engineer, Punjab Water Supply & Sewerage Board, Barnala	Sh. Rajinder Kumar Garg	SDO	9501075088	drainagesubdivisionbarnala@gmail.com
15.	Agriculture Department, Barnala	Sh. Gurcharan Singh	Assistant Agriculture, Engineer	95011-06612	caobarnala@gmail.com
16.	Forest Department, Barnala	Sh. Khushwinder Singh	DFO	94642-67554	Dfosng.pb@gmail.com
17.	District Food & Civil Supply Officer, DFSC, Barnala	Smt. Sweety Devgan	DFSC	94171-66057	dfsc.dfs.bnl@punjab.gov.in
18.	Education Department, Barnala	Sh. Sarbjit Singh Toor 2.	DEO(Sr.)	95010-00277	deose.barnala@punjabeducation.gov.in
19.	Health Department, Barnala	Dr. Gurminder Kaur	DMC	98159-55377	nrhmb1a1@gmail.com
20.	Labour Department Barnala	Smt. Gurbinder Kaur	Inspector	98783-00091	Alcsangrur232@gmail.com
21.	Director of Factories Barnala	Sh. Sahil Goyal	Deputy Director, Director of Factories	98885-07737	Ddf.labsgr@punjab.gov.in