

MICRO PLAN FOR NON ATTAINMENT CITY
OF
BHUBANESWAR



Submitted on behalf of Odisha

STATE POLLUTION CONTROL BOARD, ODISHA

(Department of Forest & Environment, Govt. of Odisha)

Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII

Bhubaneswar – 751012

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August, 2021

1. BASIC INFORMATION

Name of the Non-Attainment City	B H B A N E S W A R
State	Odisha
Name and designation of Nodal Officer of Odisha PCB	Dr. Binod Bihari Dash Regional Officer, SPC Board, Bhubaneswar
Email Id	rospcb.bhubaneswar@ospcboard.org
Contact Number	9437278272
Date till progress is reported	31-03-2021

Action Point Code	Sector	Total Number of Actions	Number of Actions Completed	Number of Actions under progress
CB	Capacity Building, Monitoring Network and source Apportionment	09	04	05
PO	Public Outreach	07	03	04
RD/CD	Road Dust and Construction & Demolition	33	12	21
VE	Vehicles	32	13	19
IP	Industries	29	13	16
BB/DF	Waste and Biomass- Burning and Dumping	13	08	05
AQ	Air Quality Data	01	01	00

2. CAPACITY BUILDING, MONITORING NETWORK AND SOURCE APPORTIONMENT

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target	Target Date as per Action Plan	Deviation from Target	Annual Target(2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
CB-1		Installation and Commissioning of Monitoring Stations											
CB1.1	CAAQMS	<p>Real time AQ Data is being sourced from 01 CAAQMS installed by Institute of Minerals and Material Technology, (IMMT) Bhubaneswar, CSIR Lab, in the Air shed Area of the city.</p> <p>i. IMMT, Bhubaneswar (20° 50'46.70" N; 85° 09'11.00" E) (BBSR-C-01)</p> <p>ii. Selection of vendor through National Competitive Bidding (e-Tender) is under process for installation of Two CAAQMS in Bhubaneswar City with NCAP funds is under final stage.</p> <p>iii. CPCB has proposed to install two CAAQMS in Bhubaneswar capital City</p>	03 (As per Action Plan) 03 (As per CPCB Norms)	06 Months (August 2019)	Yes	02	Number	Yes	Detailed Micro Plan is attached as Annexure CB-1.	2.4 Crs	1.44	Nil (Will be utilized after I & C of CAAQMS).	Nil

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target	Target Date as per Action Plan	Deviation from Target	Annual Target(2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
CB 1.2	Manual Stations	<p>06 Manual Stations established under NAMP and functional at</p> <ol style="list-style-type: none"> 1. SPCB Office Building,Unit-8, Bhubaneswar (20°16'48.2''N/85°48'46.2''E) (BBSR-M-01) 2. IRC Village, Nayapalli 20°17'34.4''N/85°48'23.6''E (BBSR-M-02) 3. Capital Police Station, Unit-1 Bhubaneswar (20°26'21.72''N/85°08'31.98 E) (BBSR-M-03) 4. Patrapada Bhubaneswar (20°13'47.30''N/85°46'09.11''E) (BBSR-M-04) 5. Chandrasekharpur, Bhubaneswar (20°20'46.4''N/85°48'44.0''E) (BBSR-M-05) 6. Palasuni Water works Bhubaneswar (20°18'09.75''N/85°51'52.06''E) (BBSR-M-06) 	Completed	Completed	No	Completed	Number	No	Data available at OSPCB website www.ospcb.ord.org	Cost of on-going stations Rs 31.5 Lacs	Rs. 31.5 Lacs	Rs. 31.5 Lacs	Nil
CB-2		Satellite Based AQM and Air Quality Forecasting											

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CB 2.1	Mapping PM _{2.5} across NAC using satellite data and Air Quality Forecasting	Mapping of PM _{2.5} in the NAC using satellite based AOD Data (30 % Completed). Will be utilized for Air Quality Forecasting in future	100 % (Mapping PM _{2.5} across NAC)	12 Months (February, 2020)	Yes	PM _{2.5} Mapping to be completed.	Text	Yes	Detailed Micro Plan for Satellite Based AQM Attached. (Annexure-CB-2)	Rs. 3.54 Lakhs	Rs. 3.54 Lakhs	Rs. ___ Lakhs	1.0 Lakhs
CB- 3		Assessment of Sources											
CB 3.1 CB 3.3	Emission Inventory and Source Apportionment Study	<p>i. A Rapid Source Apportionment Study in association with Institute of Minerals and Materials Technology (IMMT) CSIR, Bhubaneswar for Bhubaneswar and Cuttack is under progress. The study will be completed by 31-12-2021.</p> <p>ii. CPCB and SPCB will jointly carry out a Comprehensive SA/CC Studies for NACs of Bhubaneswar and Balasore under utilization of Consent and EC Funds as per direction of Hon'ble NGT.</p> <p>iii. Center for Science, Technology & Policy (CSTEP) Bangalore</p>	100 % (EI & SA Study)	24 Months (Feb 2021)	Yes (Due to Covid pandemic)	EI for the City	Text	Yes	Detailed Micro Plan for SA & EI Attached. (Annexure-CB-3). Abstract of Preliminary SAS Report (Annexure CB-3).	Rs. 12.28 Lakhs + Taxes	Rs. 7.37 Lakhs + Rs. (Taxes)	Rs. 41.84 Lakhs	Lakhs + Taxes

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target	Target Date as per Action Plan	Deviation from Target	Annual Target(2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
		along with IIT Bhubaneswar are taking steps for preparation of Emission Inventory of Bhubaneswar, Cuttack and Balasore											
CB- 4		Training and Capacity Building											
CB 4.1	Training and Skill development of public officials	Could not be fully organized during 2020-21 due to Covid-19 pandemic. Training calendar for 2021-22 developed.	Training	On-Going	Yes (Due to Covid pandemic)	As per Training Calendar	Text	Yes	Training Calendar (2021-22) (Annexure-CB-4)				
CB 4.2	Infrastructure development (AQM Cell and Laboratory)	AQM Cell established in Bhubaneswar Municipal Corporation. Nodal Officer. Designated.	AQM Cell	September 2021	Yes (Due to Covid pandemic)		Text	Yes	AQM Cell Notification (Annex-CB-4)				
CB 4.3	Enforcement Units	Training Calendar for Industries (Stakeholder Departments) developed for 2021-22	Training	On going	Yes (Due to Covid pandemic)	As per Training Calendar	Text	Yes	Training Calendar (2021-22) (Annexure-CB-4)				
CB 4.4	Organization of DLMC	DLMC has been constituted for all the NACs.	DLMC Meetings	Completed	Yes (Due to Covid pandemic)	04 Meetings	Text	Yes	DLMC Notification (Annex-CB-4)				
CB 5	Emergency Response System	Air Pollution Emergency Response System for the City has been notified. Steps initiated as per the Notification	GRAP Notification and Implementation	24 Months (February, 2020)	No	ERS Implementation Completed	Text	Yes	APERP (Link NCAP-Bhubaneswar.pdf ospboard.org).				

Additional Fund Required	Funds Utilized	Funds released	Total Funds Allocated	Attachment Contents	Attachment	Field type	Annual Target(2021-22)	Deviation from Target	Target Date as per Action Plan	Target	Present status as on 31-03-2021	Action Point	Action Point Code (Agency)
				Notification Letter to OSDMA and IMD to include APERP in Disaster management (Annex-CB-5).									

3. PUBLIC OUT REACH

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Approved Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
3.		PUBLIC OUTREACH											
PO-1		Public Outreach											
PO1.1	Daily Air Quality Public Information Dissemination System	Real-time data on air quality being made available on SAMEER App and PAVAN App	Real-time AQI in both the Apps and release of daily bulletin	Ongoing/Completed	No	Completed / and Continuing	Yes	URL	CCR (cpcbccr.com) PAVAN (Paryavaran and vayu asudhata Niyatran) on Windows PC Download Free - 1.0 - com.ospcb (appsonwindows.us)	Not Required	Not Required	Not Required	Not Required
PO 1.2	Social Media Platforms	To be developed soon			No								
PO 1.3	Issue Public Advisory for prevention and control of air pollution	AQI bulletin along with public advisory and action taken is published on OSPCB website during Emergency Period.	Issue of Public Advisory	On going	No	Ongoing	Yes	URL		Not Required	Not Required	Not Required	Not Required
PO 1.4	Deeper Public Engagement and Consultation (Workshops/ Programs in Schools and Colleges/ Carrying out Public Relation and Advertising	Public Awareness Activities could not be organized due to Covid-19 pandemic. Public Awareness will be organized as per Public awareness calendar for 2021-22. OSPCB will carry out Public Relation and	As per calendar	Ongoing	Yes (Due to Covid-19 pandemic)	As per calendar	Number	Yes	Public Awareness Calendar (2021-22) Annex- PO1	Rs. ____ Lakhs		Rs. ____ Lakhs	Rs. ____ Lakhs

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Approved Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	through empaneled A & PR Agency)	Advertising through empaneled A & PR Agency with scope of work like; Design and Printing and dissemination of IEC Materials; Out of Home Activities ;Making short films; Making Audio-visuals; Making and airing TV Commercials; Making and airing Radio Content; Digital and Social Media Promotion;											
PO 1.5	Launch Mobile App to update public about Air Quality	Real-time data on air quality being made available on SAMEER App and PAVAN App.	100 %	2 Months	No	Completed	URL	No	URL: https://play.google.com/store/apps/details?id=com.ospcb_pavan	Not required	Not required	Not required	Not required
PO-2		Public Grievance Redressal System											
PO2.1	App Based System	PAVAN App has been developed and is operational.	Development of App	2 Months	No	Completed	Number	Yes	URL: https://play.google.com/store/apps/details?id=com.ospcb_pavan	Not required	Not required	Not required	Not required
PO 2.2	Helpline Number	Operational								Not required	Not required	Not required	Not required

7. ROAD DUST AND CONTRUCTION & DEMOLITION

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per approved action plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
RD 1	Road Dust												
RD 1.1	Immediate lifting of solid waste generated from disilting and cleaning of municipal drains for its disposal	Regular Cleaning is done in 541 Km drains in 13 number of major identified drains (Length 65.62 km) and other connecting drains. The cleaned solid waste after drying is disposed of in MSW Dumping facility.	100 % lifting and disposal of solid waste of identified drains of the city	Complete d/ Regular Activity	No	100 % lifting and disposal of solid waste from drains	Number	Yes	List of drains (Annex-RD- 1)				
RD 1.2	Maintain potholes free roads	Total Length of Roads (1960 Km ; Source: bhubaneswarsmartcity@ gov.in) in the City and length of road repaired during 2020-21. The Bhubaneswar road network is distributed as local (74%), Collector (14%), Sub-arterial (7%) and arterial (5%). Road density 11.8 km/ km ² of land) (LCMP for BBSR by GIZ).	100 % pothole free road	24 months (Feb 2020)	Yes	100 % pothole free road	Number	No	As per present status. The overall road condition is good. The Road Map of Bhubaneswar Annex-RD-1				
RD 1.3	Regular cleaning of street surfaces and spraying of water to suppress dust.	Steps are taken for regular cleaning of street surfaces. Length of road covered for sweeping is 915km. (60% through MSS and 40% through Manual). Out of 67 Wards – Sanitation in 57 Wards is	100 % Dust Free Road	06 Months (Aug 2019)	Yes	100 % Dust Free Road	Text	Yes	As per present status.				

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		privatized, 11 Sanitary Inspectors, 954 Sweepers engaged.																							
RD 1.4	Black-topping/ Concreting of unpaved road	Length of Unpaved Roads in the City and Length of road Black topped/ Concreted during 2020-21	100 % Black topped/ Concrete road	24 Months (Feb 2021)	Yes	100 % Black topped/ Concrete road	Number	No	As per present status																
RD 1.6	To take appropriate action to remove road dust/silt regularly by using mechanical sweepers	<p>The measures taken for removal of road dust/ silt regularly by Sweeping of 915 Km Length [Mechanical Street Sweeper (MSS) 40% and Manual 60%] for the year 2020-21 is as follows;</p> <table border="1"> <thead> <tr> <th></th> <th>MSS</th> <th>Manual SS</th> </tr> </thead> <tbody> <tr> <td>Nos Engaged</td> <td>02</td> <td>954</td> </tr> <tr> <td>Nos Proposed</td> <td>02</td> <td>--</td> </tr> <tr> <td>Length Covered in Km per day</td> <td>366</td> <td>549</td> </tr> </tbody> </table>		MSS	Manual SS	Nos Engaged	02	954	Nos Proposed	02	--	Length Covered in Km per day	366	549	100 % De-silting of major roads	06 Months (Aug 2019)	Yes	Ongoing	Number	No	Length of road cleaned per day (As per present status)	2.0 Crs	1.2 Crs		0.8 Crs
	MSS	Manual SS																							
Nos Engaged	02	954																							
Nos Proposed	02	--																							
Length Covered in Km per day	366	549																							

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RD 1.7	End-to-end paving of the road	<p>Normally the roads are paved end to end with shoulder to avoid dust generation. Length of end to end black topped is 563 Km.</p> <p>Concrete Road- 51 Km Metal Road- 182 Km Un-metal -67 Km Earthen Road- 52 km</p> <p>The distribution of road network in Bhubaneswar shows that the Right of Way (ROW) width of 58% of the roads is less than 20m and 8% of the roads have ROW of > 30m.</p> <p>Number of roads of total Length 563 Km are paved wall to wall to make them dust free</p>	As per action point	24 Months (Feb 2021)		100 % end to end paving.	Number	No	As per present status.				
RD 1.8	Road design improvement	The measures taken for improvement of road design by Work Department as per OPWD Guidelines.	Approved Design Practices	Completed / Regular	Yes	Approved Design Practices	Text	Yes	As per present status				
RD 1.9	Introduce water fountain at major traffic intersection	The status of water fountains at major traffic junctions till 31-03-2021 in the city is as follows; Numbers of fountains proposed for 2021-22 is 02 Nos,	Water fountains at major traffic junctions wherever feasible	Ongoing	Yes	-	Number	No	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per approved action plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
RD 1.10	Widening of Roads	Steps taken for widening of road wherever required and feasible is done by the Departments	Widening of road as per master plan	Completed Regular Activity	Yes	Widening of road as per master plan	Text	Yes	As per present status				
RD 1.11	Improvement of infrastructure for decongestion of road.	The level of service (LOS) on the road network based on the volume to capacity ratios from IRC Code-106-1990 shows that majority of the city roads are not facing major congestion issues since, apart from some severely congested stretches most roads have favorable LOS of >C and C (Green). (LCMP by 2040 for BBSR by GIZ) April 2021)	As given in present status	Ongoing/ Completed	Yes	As given in present status	Text	Yes	Volume to capacity ratio based on LOS for base year 2019. Annex-RD 1.				
RD 1.12	Designing and Construction of environment friendly roads	Steps have been taken for use of waste plastics in road construction.					Text	Yes	Use of plastics in road construction Annex-RD-1)				
RD 1.14	Identify road stretches with high dust generation	06 Number of road stretches identified. i. Sisu Bhawan Chaak to Vani Bihar ii. Air Port to Sainika School Chhak iii. Governor House to KIIT Patia Chhak iv. Siripur to Fire Station Chhak	Completed	Ongoing/ Completed	No	Completed	Number	No	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per approved action plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required														
		v. Pokhariput to Kalinga Studio Chhak vi. Ravi taliks to Rasulgarh Chhak																									
RD 1.15	Create Proper Pedestrian Infrastructure	In Bhubaneswar 49.7 km is covered by footpaths and there are 40 km of cycle tracks. The mode share distribution of passenger is as follows; <table border="1" data-bbox="430 597 699 881"> <thead> <tr> <th>Mode share</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>Cycle</td> <td>5</td> </tr> <tr> <td>Walk</td> <td>5</td> </tr> <tr> <td>Bus</td> <td>8</td> </tr> <tr> <td>Auto-rickshaw</td> <td>17</td> </tr> <tr> <td>Two-wheeler</td> <td>55</td> </tr> <tr> <td>Car</td> <td>7</td> </tr> </tbody> </table> (LCMP-2040 for BBSR by GIZ) April-2021).	Mode share	Percentage	Cycle	5	Walk	5	Bus	8	Auto-rickshaw	17	Two-wheeler	55	Car	7	As per action point	Ongoing	No	Continuous	Text	No.	As per present status				
Mode share	Percentage																										
Cycle	5																										
Walk	5																										
Bus	8																										
Auto-rickshaw	17																										
Two-wheeler	55																										
Car	7																										
RD 1.16	All the canals/nullah's side roads should be brick lined. Proper plantation also carried out.	The status report on brick lining/ paving and plantation of roads along the canals/ nalas within the city till 31-03-2021 is as follows;	100 % brick lining/ paving and plantation of roads along the canals/ nalas within the city	24 Months (Feb 2021)	Yes	Ongoing	Number	No	As per present status report																		
RD 2	Creation of Green Cover																										

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per approved action plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
RD 2.2	Creation of green buffers along the traffic corridors and their maintenance	In the year 2020-21, BMC has planted 4000 No of trees for increasing green cover. The cumulative plantation by BMC is 285600 in last years.	Number of trees	12 Months	No. Completed	Continuous	Number	No	As per present status				
RD 2.3	Necessary changes in byelaws- Greening of open areas, gardens, community places, schools and housing societies	Housing and Urban Development Department, Govt. of Odisha vide its notification on 7 th February, 2020 has promulgated Odisha Development Authorities (Planning and Building Standards) Rules for Greening of open areas, gardens, community places, schools and housing societies	As per action point	Ongoing	Completed	Completed	Text	Yes	URL Microsoft Word - ODA (P&BS) Rules 2020 - 01.02.2020 .docx (urbanodisha.gov.in)				
RD 2.4	Urban Greening with vertical garden	Mostly implemented in Housing Societies	As per action point	Ongoing	Completed	Completed	Text	No	As per present status				
RD 2.5	Builders should leave 25%/33% area for green belt in residential colonies to be made mandatory.	Mandatory Conditions imposed is imposed for providing at least 33 % Green Cover during grant of Environmental Clearance and Consent to Establish	Ongoing	Ongoing	No	Ongoing	Yes	No	As per present status				
RD 2.6	Adopt street design guidelines for	Worked out by the Works Department	Ongoing	Ongoing	No	Ongoing	Yes	No	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per approved action plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	paving of roads and footpaths (hard and soft paving) and vegetative barriers.												
RD 2.7	Implementation of maintaining at least 33% forest cover area in the city in master plan.	The comprehensive development plan for Bhubaneswar has been prepared by Bhubaneswar Development Authority	As per action point	Ongoing	No	-	Text	Yes	The Proposed Land Use Map of Bhubaneswar (Annex-RD-7)				
RD 3	Installation of WAYU (Wind Augmentation and Purifying Units) at urban traffic intersection.	SPCB is undertaking this task with the assistance of UNDP on trial basis at Angul. Will be replicated in future if proved to be successful.	Ongoing	Ongoing	No	Ongoing	Yes	No	As per present status				
C & D 1	Construction Activities												
C&D 1.1	Ensure transportation of construction materials in covered vehicles	Housing and Urban Development, Govt. of Odisha has formulated a Strategy for Management of Construction and Demolition Waste and has communicated it all the Municipalities for implementation.	As per the present Status	06 Months (Aug 2019)	No	As per the present Status	Text	No	Annex-C&D- 1				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per approved action plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
C&D 1.2	Strict enforcement of CPCB guidelines for construction (use of green screens, side covering of digging sites, etc.)	Direction issued to all Municipalities. Copy attached.	As per the present Status	06 Months (Aug 2019)	No	As per the present Status	Text	No	Annex-C&D- 1				
C & D 1.3	Restriction on storage of construction materials along the road.	Direction issued to all municipalities. Copy attached.	As per the present Status	06 Months (Aug 2019)	No	As per the present Status	Text	No	As per present status				
C&D 1.4	Covering of construction site.	As per attachment	100% monitoring through Dust App (Regular Activity)	-	-	-	Text	Nil	As per present status				
C&D 1.5	To create separate space/zone to handle solid waste, C&D waste and other waste in the city	As per attachment	-	-	-	-	Text	Nil	As per present status				
C&D 1.6	To mandate facility of tar road inside the construction site for	As per attachment	-	-	-	-	Text	Nil	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per approved action plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	movement of vehicles carrying construction material												
C&D 1.7	Promotion of the use of prefabricated blocks for building construction	As per attachment	-	-	-	-	Text	Nil	As per present status				
C&D 1.8	Enforcement of Construction and Demolition Waste Rules	C&D Waste -19910 MT/A Processing - Nil	No	As per the present Status	Text	No	Nil	Nil	As per present status				
C&D 1.9	Control measures for fugitive emissions from material handling-conveying and screening operations	As per attachment	-	-	-	-	Text	Nil	As per present status				
C & D 1.10	Develop and implement dust control measures for all types of construction activities -- buildings and infrastructure.	As per attachment	-	-	-	-	Text	Nil	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per approved action plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
C & D 1.11	Enforce restrictions on construction activities within urban air-shed zones during high pollution period	As per attachment	-	-	-	-	Text	Nil	As per present status				
C & D 1.12	Frame and implement policy for segregation of construction and demolition waste and provide a network of decentralized C&D waste segregation and collection sites across the city.	As per attachment	-	-	-	-	Text	Nil	As per present status				
C & D 1.13	Promote recycling of construction and demolition waste.	As per attachment	-	-	-	-	Text	Nil	As per present status				

5. VEHICLES

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
VE-1	Improve and Strengthen PUC Programme												
VE 1.1	Number of PUC centers in the city	In Bhubaneswar-I; 111 PUC Centers and Bhubaneswar-II; 64 PUC Centers are operational.	Adequate PUC Centers	12 Months (February 2020)	No.	Regular/ Completed	Number	Yes	Link https://vahan.parivahan.gov.in/puc/vehicleListCenterList.xhtml				
VE 1.2	Regular checking of Vehicular emission and issue of Pollution under Control Certificate (PUC)	A total of 3.08 PUCs issued during the period 2020-21. A total of 93 Chhalans issued during the period 2020-21 for lack of PUC Certificates	As per action point	12 Months (February 2020)	No Regular Enforcement Activity	Regular Activity/ Completed	Number	No.	As per present status				
VE 1.3	Auditing and reform of Pollution Under Control (PUC) certification	Information is under collection.	As per action point	-	-	-	-	-	As per present status				
VE 1.4	Linking of PUC centers with remote server and eliminate manual intervention	A total of 175 PUC Center are operational in Bhubaneswar City and linked to online server of Transport Department	As per action point	12 Months (February 2020)	No. Activity Completed. PUC Centers linked to Remote	Linking of 175 PUC Centers with Remote	Number	No	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	in PUC testing.				Server	Server							
VE 1.5	Integrate on-board diagnostic (OBD) system fitted in new vehicles with vehicle inspection.	Information is being collected	As per action point	12 Months (February 2020)				No	As per present status				
VE 1.6	Link PUC certificates with annual vehicle insurance	Planned during 2020-21. Under Progress for 2021-22.	As per action point	12 Months (February 2020)	Yes	As per action point	Text	No	As per present status				
VE 2	Vehicle labeling or sticker programme	Information is under collection	As per action point	12 Months (February 2020)	Yes		Text	Yes					
VE 3	Freight Transport												
VE 3.1, VE 3.2 VE 3.3	Use of off-peak passenger travel times to move freight; Provide truck rest areas/parks along NH/SHs and restrict the entry of heavy vehicles into cities during the day.	The Collector and District Magistrate is enforcing the restriction of plying of vehicles during peak hours.	As per action point	06 Months (August 2019)	Regular Activity	Regular Activity/ Completed	Text	Yes	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	Diversion of truck traffic												
VE 3.4	Check overloading: Use weigh-in-motion bridges / machines (WIM) and Weigh bridges at entry points to the city to check the payload of commercial vehicles.	Number of weigh bridges installed for freight movement into and out of BMC is _____ Nos. Details of overloaded vehicles passing toll plazas to be obtained. Information is under collection	As per action point	06 Months (August 2019)	Regular Activity	Regular Activity/ Completed	Number	No	As per present status				
VE 3.5	Define routes, permits, fares, vehicle design and safety standards, and vehicle technology standards for para-transit vehicles.	The Transport Department Govt. of Odisha is enforcing this action point.	As per action point	Regular Activity	Regular Activity	Regular Activity/ Completed	Text	No	Number and class of vehicles registered in the City(Annex-3).				
VE 4	Clean fuel and fuel Quality												
VE 4.1	Check on fuel adulteration and random monitoring of fuel quality data	The status of number of number of fuel stations of IOCL, and quantity of HSD, MS, and SKO supplied in 2020-21 with sampling to check adulteration is provided.	As per action point	06 Months (August 2019)	No. Regular Enforcement Activity	60 % of tanker retail outlets per month	Number	No	As per present status (Annex-VE-4)	Not required			

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
VE 4.2	Alternative clean fuel policy for vehicle	Odisha Draft Electric Vehicles Policy 2021 notified on 11-02-2021	Notification on Clean Fuel Policy for Vehicles	12 Months (February 2020)	Yes	Notification	Text	Yes	Odisha Draft Electric Vehicles Policy 2021				
VE 4.3	Bio Fuel Policy	Running of buses in cities through generation of biogas from waste and sewage to commence.	As per action point	12 Months (February 2019)	Yes	Policy Notification	Text	No	Nil				
VE 4.4	Use of Bio-Ethanol in Urban City Transport	Petrol with ____% Ethanol sold in ____ Petrol Pumps Information is under collection	Supply of 10% Ethanol Blended Petrol	New Activity	No	As per action point	Number	No	As per present status				
VE 5	Parking Management												
VE 5.1 VE 5.3	Prevent/ Penalize parking of vehicles in the non-designated areas	There are 32 on street and 28 off street designated parking areas with a total equivalent car space (ECS) of 5500. Under Smart city mission Janpath on street parking is under construction. During 2020-21; Number of Chalan issued by the BMC for parking of vehicles in the non-designated areas.	As per action point	06 Months (August 2019)	No	Regular Activity/ Completed	Number	No	As per present status				
VE 5.2	Development of Multi-layer parking	As a part of Smart city mission multilevel car parking are under construction at Saheed Nagar and at Rajmahal and Janpath	As per action point	06 Months (August 2019)	Yes	Regular Activity/ Completed	Number	No	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
VE 6	Strengthening Public Transportation												
VE 6.1	Regulate the taxi industry	It is under implementation.	As per action point	Ongoing	Ongoing	Regular activity	Text	No	As per present status				
VE 6.2 VE 6.3 VE 6.4	Assess and introduce a city bus system of appropriate fleet size of small buses and desirable bus type (including intermediate public transport, IPT), replete with GPS tracking, ETVMs for fare collection and Passenger Information Systems. Including Route Plan	The public transport (PT) in Bhubaneswar city consists of city buses and rails connecting inter and intra city destinations, supported by intermediate public transport (IPT) in forms of auto rickshaws and cabs. In Bhubaneswar, Capital Region Urban Transport (CRUT) has been constituted under Housing and Urban Development Department for operationalization of PT facility. The present facility of PT and IPT with future plan is annexed. <i>(Source: LCMP for Bhubaneswar by GIZ)</i>	As per action point	24 Months (February, 2021)	Ongoing	Completed Regular Activity	Text	Yes	As per present status. A note on PT and IPT for Bhubaneswar is as per Annex-VE-6				
VE 6.5 VE 4.2	Introduction of new electric buses (with proper infrastructure facilities such as charging	Steps taken in this regard and future perspectives are as above (VE-6.3 to 6.4).	As per present status	12 Months (February, 2019)	On going	Regular Activity.	Text	Yes	Annex-VE-6.				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	stations) and CNG buses for public transport which will reduce plying of private vehicles on road and help to curb tail-pipe emissions.												
VE 6.6	CNG infrastructure for auto gas supply in the city and transition of public transport vehicles to CNG mode Introduction of e-buses for Public transport in metro cities	Number of CNG stations, KM length of gas pipelines, % of public transport vehicles running on CNG and electric wrt to total public transport (Above data is under compilation)		24 Months (February, 2021)									
VE 6.7	Steps for promoting battery operated vehicles like E-rickshaw /E-Cart	As per above	As per action point	24 Months (February, 2021)	Ongoing	Ongoing	Text	No	As per present status				
VE-7	Traffic Congestion												

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
VE 7.1	Conducting audit of traffic intersections and install functional traffic signals at all major intersections	1. Frequency of functional audit for major 50 traffic intersections- Quarterly . 2. Ratio of Operational Traffic Signals/Total Traffic Signals for major intersections : 1	As per present status	06 Months August-2019)	Continuou s activity	Regul ar Completed activit y	Number	No	Nil				
VE 7.2	Synchronize traffic movements/Introduce intelligent traffic system for lane-driving	All traffic personnel have been instructed to ensure lane driving. Under ITMS, 50 corridors have been developed. (Adaptive Traffic Signal Control System)	As per action point	06 Months August-2019)		ITMS at Inters ection s	Number	No	As per present status				
VE 7.3	Prepare plan for construction of diversion ways/ bypasses to avoid congestion due to non-destined vehicles.	____ Nos of Bye Passes/ Fly overs under Planning Stage. ____Bye Passes at following locations have been Created ____Fly overs at following locations have been Created Construction work is under progress for Fly Overs/ Bye passes at following locations Information is under collection		36 Months (February-2019)			Number	No	Nil				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
VE 7.4	Prepare plan for widening of road and improvement of infrastructure for decongestion of road.	Information is under collection.					Text	Yes	As per present status				
VE 7.5	Identification of Traffic Congestion Hot Spots	09 Number of hotspots at Traffic Intersections have been identified. Steps are being initiated for de-congestion of these hot spots i. Rajmahal Square ii. Master-canteen Square iii. Vani Vihar Square iv. 4 Junctions from Jayadev Vihar to Nandankan Road v. Khandagiri Square vi. Rasulgarh Square	De-congestion of traffic congestion hot spots	06 Months August-2019)	Yes	-	Number	No	List of Traffic Congestion hot spots with traffic count.				
VE 8	Launch Public awareness campaign for air pollution control, vehicle maintenance, minimizing use of personal vehicle, lane discipline, etc.	_____ Number of Awareness Campaign have been organized during 2020-21.	Regular Activity	Regular Activity	No	Regular Activity	Number	No	Nil				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
VE 9	Periodic calibration test of vehicular emission monitoring instrument.	SOP is under collection	Regular Activity	Regular Activity	No	Regular Activity	Text	Yes	Annex-VE__.				
VE 10	To check the calibration of emission monitoring equipment, housed in Emission Testing Centers (ETCs) once in 6 months to know the status of equipment	Steps taken is attached.					Text						
VE 11	Phase out old vehicles and vehicle scrappage policy												
VE 11.2	Restriction on plying and phasing out of 15 years old commercial diesel driven vehicles.	The vehicle scrap page policy to be formulated		12 Months (February, 2019)			Text	Yes	As per present status				
VE 11.3 VE 11.5	Enforcement of law against visibly polluting vehicles: remove them	Number of vehicles have been imposed with fine for polluting is under collection	Regular Activity	Regular Activity	No	Regular Activity	Number	No	As per present status				

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	from road, impose penalty, and launch extensive awareness drive against polluting vehicles.												
VE 11.4	Initiate steps for retrofitting of particulate filters in diesel vehicles, when BS-VI fuels are available.	Information is under collection	Retrofitting of particulate filters in diesel vehicles.	-	-	Retrofitting of particulate filters in diesel vehicles.	Text	No	As per present status				
VE 11.6	Examine existing framework for removing broken down buses or trucks from roads and create a system for speedy removal and ensuring minimal disruption to traffic from such buses or trucks.	Policy to be formulated is under collection.	As per action point	36 Months (Feb 2022)	-	-	Text	No	As per present status				
VE 12	NMT												

Action Point Code	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
VE 12.1	Introducing cycle tracks along with the roads	Bhubaneswar has 40 km of dedicated cycle lane network, mostly segregated from motorized traffic. In addition a public bike sharing system "MO CYCLE) is operational by CRUT with a fleet of 2000 cycles and 363 stations and is operated through mobile app.	Cycle Track	36 Months (Feb 2022)	Yes	As per Smart City Project	Number	No	As per Present status				
VE 12.2	Prepare and implement zonal plans to develop an NMT network	49.7 km roads in Bhubaneswar have footpaths. The footpath network requires augmentation. Signalized intersections require exclusive pedestrian crossings.	As per action point	36 Months (Feb 2022)			Text	No	As per present status				
VE 13.	Compact city development to reduce distances and improve access	The city is being developed as per Comprehensive Development Plan (2030) prepared by Bhubaneswar Development Authority.	As per action point	36 Months (Feb 2022)	Ongoing	Ongoing	Text	Yes	Present and proposed land use plan for Bhubaneswar (Annex-VE- 13).				

6. INDUSTRIES

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
IP-1	Industrial Air Pollution Control												
IP1.1 IP 1.7	To intensify monitoring of industries to reduce emissions	Total Number of Industries Identified Red Category- 43 Orange Category- 76 Inspection Conducted during 2020-21 Red Category- 31 Orange Category- 36	Compliance in 119 Units (Red + Orange) Identified	Ongoing enforcement activity	No Regular Enforcement Activity	Compliance in all identified R & O industries	Number	Yes	List of Identified Red and Orange Industries (119 Nos) Annex:IP-1	Not required	Not required	Not required	Not required
IP1.2 IP 1.11 IP 1.12	Action against non-complying polluting industries	OSPCB has taken action against 02 Units for violation of provisions of Air (PCP) Act, 1981 during 2020-21	Regular Activity	Ongoing enforcement activity	No Regular Enforcement Activity	Completed	Number	Yes	List of industries against which action is taken Annex:IP-1	Not required	Not required	Not required	Not required
IP 1.3	Shifting of Polluting Industries	Till 31 st Mar 2021 number of polluting industries identified for shifting is 01 (M/s Pioneer Printing Press, Kalinga Nagar). Number of industries shifted is 1. However, F & E, Govt. of Odisha and OPSB has prescribed siting criteria for establishment of certain industries such as Stone Crushers and Mineral Stockyards / Railway Sidings.	As per action point	-	No Regular Enforcement Activity	Ongoing	Number	Yes	As per present status	Not required	Not required	Not required	Not required

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
IP 1.4	Ban on Polluting Industries/ Activity	Till 31 st Mar 2021, OSPCB has imposed ban on following type of polluting activity/ industries Hon'ble NGT passed directions while hearing OA No.249/2020 (Tribunal on its own Motion Vs MoEF&CC) and other similar cases on 01.12.2020 to restrict use of fire crackers in cities /towns where air quality is moderate or below	As per action point	Ongoing enforcement activity	No Regular Enforcement Activity	Ongoing	Number	Yes	As per present status	Not required	Not required	Not required	Not required
IP 1.8	Promoting Cleaner Production in Industries	OSPCB has always encouraged the polluting industries Promoting Cleaner Production. Mostly the Iron and Steel industries are adopting cleaner production by adopting, continuous casting, Heat recovery of Waste gases i.e., Coke Oven Gas, Blast Furnace Gas, BOF Gas and their gainful utilization as fuels inside the plant. However, there is no such industries in Bhubaneswar Air shed Area.	Cleaner Production	Ongoing activity	No Regular Activity	Ongoing	Text	No	As per present status	Not required	Not required	Not required	Not required
IP 1.9	Fugitive Emission Control	OSPCB has directed the industries for control of fugitive emissions. The industries in general	Emission Control	Ongoing activity	No Regular Activity	Ongoing	Text	No	As per present status	Not required	Not required	Not required	Not required

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
		have adopted dust extraction systems and dust suppression systems viz., 1) Dust extraction systems followed by ESPs, Bag Houses, and Multi Cyclones & Wet Scrubbers. 2) Dust Suppression Systems viz., a) Dry Fog Dust Suppression Systems b) Wet Fog Dust Suppression Systems c) Water Sprinkling systems.											
IP 1.10	Ensuring installation/ Up-gradation and operation of air pollution control devices in industries	Regular vigilance/ inspection is conducted for polluting industries and action as per statute is taken against defaulting units (Annex IP-1) During 2020-21; No industries has been directed for up-gradation of APC devices.	As per action point	31 st Mar 2021	No Regular Enforcement Activity	Ongoing	Number	Yes	As per present status	Not required	Not required	Not required	Not required
IP 1.13	Disposal of all non-hazardous wastes into the designated dumping sites	Quantity of non-hazardous industrial wastes generated from 73 Number of Polluting Industries amounting to 47 TPD are dumped within their premises.	100 % disposal of non-hazardous industrial wastes (TPD)	Ongoing enforcement activity	No Regular Enforcement Activity	Regular activity	Number	Yes	As per present status	Not required	Not required	Not required	Not required
IP 1.15 IP 1.14	Industries allowed with stringent Environmental norms only.	During 2020-21; No industries has been directed to operate with stringent emission norms.	Regular Activity	Ongoing enforcement activity	No Regular Enforcement Activity	Regular Activity	Numbers	Yes	As per present status	Not required	Not required	Not required	Not required

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
IP 1.25 (SPCB)	Initiated Star Rating Programme	Under Star Rating Project 17 Category of highly polluting industries have connected their CEMS with the RT-DAS server of the Board. Their emission is constantly evaluated granting Stars to them. However, there is no 17 Category of highly polluting industries located in Bhubaneswar.	Accord Stars to industry based on their compliance to emission norms.	180 days (August 2019)	No	Ongoing project	Text	Yes	As per present status	Not required	Not required	Not required	Not required
IP 1.26	Bank guarantee should be taken for the compliance of conditions imposed in CTO/CTE for control of Environmental Pollution from industries.	No Bank Guarantee imposed during 2020-21 on Industries for control of environmental pollution.	Regular Activity	Regular Activity	No Regular Enforcement Activity	Regular Activity	Number	Yes	As per present status	Not required	Not required	Not required	Not required
IP 1.28 (SPCB)	Implementation of SO _x and NO _x standards notified by MoEF&CC	There is no 17 category of highly polluting industries located in Bhubaneswar City.	Achieve new SO ₂ and NO _x emission standard	180 days (August 2019)	Yes	Ongoing	Number	No	As per present status	Not required	Not required	Not required	Not required
IP-4	Clean Fuel in Industries												
IP 4.3	Strict enforcement against illegal	Yes; No industries found using illegal fuel	As per action point	Ongoing	No	Regular Activity	Yes/No	No	Nil	Not required	Not required	Not required	Not required

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	use of such fuels, including fuels which do not have specifications laid down or are included in the acceptable fuels as mandated by state pollution control boards					ty							
IP 4.4 (F & E Deptt.)	Establish a protocol for using cleaner fuels & technology in industries	Yes; Forest and Environment Department, Govt. of Odisha has notified Fuel Policy for Odisha vide its Notification No-7485 Dt. 12-04-2021	Notification of Fuel Policy	06 Months (February, 2019)	Yes	Activity Completed	Yes/No	Yes	Fuel Policy for State of Odisha (Annex: IP-4)	Not required	Not required	Not required	Not required
IP- 5	Control of Air Pollution in Brick Kilns												
IP 5.2	Identification of brick kilns and their regular monitoring including use of designated fuel and closure of unauthorized units.	In SAS Area (Tentative Air Shed Area) 11 fixed Chimney Brick Kilns were operating in Gadakana, Pandra, Kuakhai area). However, all the brick kilns have stopped production and presently not in operation. Monitoring Plan- Yearly (Brick kilns are seasonal industry)	New Technology in Brick Kilns	12 Months (February, 2020)	No	Regular Activity	Number	Yes	List of not in operation Brick Kiln (Annex-IP-5)	Not required	Not required	Not required	Not required

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
		11 nos of unit Brick kiln in the above said areas (10 units- closed and 01 unit issued- DOC)											
IP-8	Control of fugitive emission in industries												
IP 8.1 IP 8.3	Use of covered or enclosed conveyors and transfer points	Yes; In Industries the Conveyors used for transport of materials (Raw Materials and finished materials) are enclosed/ covered. Appropriate APC Measures installed at transfer points	As per action point	Ongoing	No	Ongoing	Yes/No	No	As per present status	Not required	Not required	Not required	Not required
IP 11	Control of air pollution from Diesel Generator Sets												
IP 11.1	Allow only DG sets meeting emission and design of chimney/ exhaust, acoustic enclosures standards to operate	Yes; DG Sets installed in industries usually meet the prescribed norms.- 113 nos units	Compliant DG Sets	06 Months (Aug 2019)	No	Regular Activity	Number	Yes	Status of DG Sets in Red and Orange Category of industries (Annex-IP-11)	Not required	Not required	Not required	Not required
IP 11.6	Monitoring of DG Sets and taking action against	Random inspection and monitoring being carried out to check violations.	Compliant DG Sets	Regular Activity	No	Regular Activity	Number	No	Nil	Not required	Not required	Not required	Not required

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	violaters												
IP-12	Control of air pollution from waste incineration												
IP 12.1	Strong siting policy for Waste to Energy Plants	Yes Siting policy prescribed by MoEF & CC is being followed	As per action point	06 Months (Aug 2019)	No	Regular Activity	Yes/No	No	As per present status	Not required	Not required	Not required	Not required
IP 12.2	Strong siting policy for Biomedical Incineration Plants	Yes Siting policy prescribed by MoEF & CC is being followed	As per action point	06 Months (Aug 2019)	No	Regular Activity	Yes/No	No	As per present status	Not required	Not required	Not required	Not required
12.3	Implement CEMS for incinerators and provide data on emissions on an open platform	Total number of BMW Incinerators- 0 in SAS Area	As per action point	06 Months (Aug 2019)	No	Regular Activity	Yes/No	No	As per present status	Not required	Not required	Not required	Not required
IP- 13	Renewable Energy												
IP- 13.1	Link energy requirements for solar power plants to shift to zero emission target	Information is under collection								Not required	Not required	Not required	Not required
IP- 13.2	Identify and target commercial and industrial establishments for installation of	Number of commercial and industrial establishments targeted								Not required	Not required	Not required	Not required

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	roof top solar system												
IP- 13.3	Identify canals and open spaces for installation of solar systems	Number of open spaces identified and solar system installed is collection								Not required	Not required	Not required	Not required
IP- 13.4	Organize consumer outreach programme for roof top solar programme	Information is under collection								Not required	Not required	Not required	Not required

7. WASTE AND BIOMASS – DUMPING AND BURNING

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date as per Action Plan	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
BB1	Biomass Burning												
BB 1.1 BB 1.3 (LMA)	Regular check and control of burning of municipal solid wastes	During 2020-21; 01 number of inspection have been conducted for control of burning of municipal solid wastes	No Burning of MSW	06 Months (August 2019)	No	Regular / Complete d activity	Number	No	As per present status	Not require d	Not requir ed	Not required	Not required
BB 1.2 (LMA)	Defaulters for open burning to be imposed fines	01 Nos of violations observed by SPCB and Fines imposed Rs. Nil	No Burning of MSW	Regular Activity	No	Regular / Complete d activity	Number	No	As per present status				
BB 1.4 (H& UD Deptt. & SPCB)	Prohibition/ complete ban on garbage burning.	OSPCB has issued Public Notice on 08-02-2017 and H&UD Deptt. Govt. of Odisha has instructed the ULBs on 11-01-2021 to enforce Ban on Open Burning of MSW.	Issue Notificati on of ban on burning of MSW	06 Months (August 2019)	No	Activity Complete d	Number	Yes	The Public Notice and letter communicat ed to all ULBs (Annex-BB-1)	Not require d	Not requir ed	Not required	Not required
BB 1.5 (LMA)	Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc.	H&UD Deptt. Govt. of Odisha has instructed the ULBs on 11-01-2021 to measure against open burning of bio-mass, crop residue, garbage, leaves, etc	No open burning of MSW	No	No	Regular / On going activity	Number	Yes	(Annex-BB-1)				
BB 1.7 (LMA)	Regular collection and control of municipal solid wastes.	MSW collected- 520 Tons /day MSW Generated- 520 Tons per day	100 % Collection of MSW	06 Months (August 2019)	No	Regular Activity / Ongoing	Text	Yes	Steps Taken (Annex-BB-2)	Not require d	Not requir ed	Not required	Not required
BB 1.8 (LMA)	Providing Organic Waste Compost	Number of machines for organic waste compost (MCC) – 100	Decentrali zed waste collection	06 Months (August 2019)	No	Regular Activity / Ongoing	Number	No	As per present status	Not require d	Not requir ed	Not required	Not required

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date as per Action Plan	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
	machines, decentralization of processing of Waste, dry waste collection centers.	<p>TPD</p> <p>Decentralized Waste processing Sites (MCC) – 16 x 5 TPD, 2x 3 TPD (Functional) 8 x 5 TPD under construction.</p> <p>10 x 5 TPD under progress.</p> <p>Dry waste collection centers-Material Recovery Facility (MRF) (3 x 10 TPD functional) 9 x 10 TPD under progress.</p> <p>5 x10 TPD under planning stage</p>	and processing						(Annex-BB-2)				
BB 1.9 (LMA)	Awareness for controlling of burning of agricultural waste and crop residues.	H & UD Department Govt. of Odisha has instructed the ULBs to impress upon through IEC Activities/ Swacha and Supervisors for controlling of burning of agricultural waste and crop residues.	Awareness among citizens.	Regular Activity	No	Regular Activity / Ongoing	Text	Yes	Annex- BB-1				
BB 1.11 (LMA)	Dead Bodies of Animals should be disposed through proper treatment facility like rendering plant etc.	Municipality has provided deep burial pit at the Bhuasuni dump site for disposal of dead bodies of animals. Bleaching powder and earth material (soil) is being used for the covering of dead bodies after disposal.	Regular Activity	Regular Activity	Regular Activity	Municipality/ Corporation	Number	No	As per present status				

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date as per Action Plan	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
BB2 (LMA)	Ensure segregation of waste at source	Number of institutions nonresidential premises including commercial establishments, hotels, restaurants, educational institutions and offices covered -1529 and number of households 211538 where waste segregation at source is being practiced.	100 % segregation of MSW at source.	06 Months (August 2019)	No	Regular Activity / Ongoing	Text	Yes	Steps Taken (Annex-BB-2)				
BB 3 BB 4 (LMA & H & UD)	Proper collection of Horticulture waste and its disposal following composting-cum-gardening approach	H & UD Deptt. Govt. of Odisha has instructed all ULBs for not to burn any leaves etc. (Horticultural waste) and dispose them in Land fill site. Number of composting cum gardening sites development-	Regular Activity	06 Months (August 2019)	No	Regular /On going Activity	Number	No	As per present sNumtatus (Annex-BB-1)				
BB 5 (SPCB)	Ambient air quality monitoring of municipal dumping sites	Number of municipal dumping sites- 01 Number of public parks-07 Number of AAQ monitoring conducted- 1 Date:26-03-2019 PM10-307 and 197 μgm^{-3}	Regular Activity	Regular Activity	Regular Activity	SPCB	Number	No	As per present status. AAQ Report (Annex-BB-5)				
BB 6 SPCB/LMA)	Check/stop on Stubble Burning	Number of inspections conducted and whether any notification issued is under compilation					Number Yes/ No						
BB 10.1 BB 10.2 (H&UD)	Adopt roadmap for zero landfill	MCCs of capacity 100 TPD (Total) and MRFs of capacity 30 TPD	Prevent Land fill fire	06 Months (August 2019)	No	Regular/ On going activity	Text	Yes	Annex-BB-1				

Action Point Code (Agency)	Action Point	Present status as on 31-03-2021	Target as per Action Plan	Target Date as per Action Plan	Deviation from Target	Annual Target (2021-22)	Field type	Attachment	Attachment Contents	Total Funds Allocated	Funds released	Funds Utilized	Additional Fund Required
Deptt.)	policy to promote decentralized waste segregation, reuse and recycling to prevent land fill fire	(Total) have been installed and functional for the segregation, composting, recovery and recycling of waste.											
BB 11 (SRC, GoO)	Fire crackers— regulate to control their usage	Govt. of Odisha under Disaster Management Act 2005, has issued prohibition on use and sale of fire crackers from 10 th to 30 th Nov. 2020 in public interest to protect health of vulnerable groups.	Protection of health of people	Regular Activity	No	Home Deptt.	Text	Yes	Order on prohibition and sale of fire crackers dtd. 03-11-2020) (Annex-BB-11)				
DF 1	Domestic fuel												
DF 1.1	Increasing the LPG connections in low income strata.	Number of LPG connections in the city to low income strata (EWS) information is under collection.					Number	No	As per present status	Not required	Not required	Not required	Not required
DF 1.2	Ensuring promotion and use of cleaner fuel (i.e. LPG) instead of coal fired chulas or fire-woods in the hotels and open spaces	Information is under collection					Text	Yes	As per present status	Not required	Not required	Not required	Not required
DF 1.8	Implementation of Pradhan Mantri Ujjwala Yojana (PMUY)	Information is under collection					Text	Yes	As per present status	Not required	Not required	Not required	Not required

8. AIR QUALITY DATA (2020) (BHUBANESWAR CITY)
(Average Ambient Air Quality Data of 06 NAQM Stations)

Action Code	Action Point	Field Type	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Attach ment
AQ 1.1	Monthly Av. (PM _{2.5})		µg/m ³	42	41	29	17	19	29	22	28	21	24	44	46	
AQ 1.2	Monthly Av. (PM ₁₀)		µg/m ³	127	117	73	45	52	59	56	53	65	69	99	111	
AQ 1.3	Monthly Av. (SO ₂)		µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
AQ 1.4	Monthly Av. (NO _x)		µg/m ³	16.4	16.6	10.0	10.7	13.0	12.5	13.5	14.9	15.8	15.8	16.3	14.4	
AQ 1.5	Annual Av. (PM _{2.5})		µg/m ³	30												
AQ 1.6	Annual Av. (PM ₁₀)		µg/m ³	80												
AQ 1.7	Annual Av. (SO ₂)		µg/m ³	BDL												
AQ 1.8	Annual Av. (NO _x)		µg/m ³	14.4												

NB.: - NM:- Not Monitored, BDL- Below Detectable Limit, BDL Value for SO₂ ≤ 4µg/m³, NO₂ ≤ 9µg/m³, NH₃ ≤ 20µg/m³, O₃ ≤ 20µg/m³

1. AIR QUALITY DATA OF OFFICE BUILDING (2020)

Action Code	Action Point	Field Type	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Attachment	
AQ 1.1	Monthly Av. (PM _{2.5})	Num	µg/m ³	47	46	25	18	25	23	23	23	24	28	42	48		
AQ 1.2	Monthly Av. (PM ₁₀)	Residential	µg/m ³	146	138	86	52	63	67	64	NM	MN	76	90	141		
AQ 1.3	Monthly Av. (SO ₂)		µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NM	NM	BDL	BDL	BDL	
AQ 1.4	Monthly Av. (NO _x)		µg/m ³	17.4	15.3	12.3	12.4	12.1	13.1	13.5	NM	NM	15.9	16.2	15.2		
AQ 1.5	Annual Av. (PM _{2.5})		µg/m ³	31													
AQ 1.6	Annual Av. (PM ₁₀)		µg/m ³	92													
AQ 1.7	Annual Av. (SO ₂)		µg/m ³	BDL													
AQ 1.8	Annual Av. (NO _x)		µg/m ³	14.3													

2. AIR QUALITY DATA OF IRC VILLAGE (2020)

Action Code	Action Point	Field Type	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Attachment	
AQ 1.1	Monthly Av. (PM _{2.5})	Num	µg/m ³	Not Monitored										19	Not Monitored		
AQ 1.2	Monthly Av. (PM ₁₀)	Residential	µg/m ³	129	125	64	49	48	49	52	55	63	60	93	93		
AQ 1.3	Monthly Av. (SO ₂)		µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
AQ 1.4	Monthly Av. (NO _x)		µg/m ³	17.0	17.2	10.9	10.0	10.9	13.1	14.8	15.0	17.6	16.5	15.9	13.9		
AQ 1.5	Annual Av. (PM _{2.5})		µg/m ³	19													
AQ 1.6	Annual Av. (PM ₁₀)		µg/m ³	73													
AQ 1.7	Annual Av. (SO ₂)		µg/m ³	BDL													
AQ 1.8	Annual Av. (NO _x)		µg/m ³	14.0													

3. AIR QUALITY DATA OF CAPITAL POLICE STATION (2020)

Action Code	Action Point	Field Type	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Attachment	
AQ 1.1	Monthly Av. (PM _{2.5})	Num	µg/m ³	39	38	47	22	20	NM	NM	NM	NM	22	40	30		
AQ 1.2	Monthly Av. (PM ₁₀)	Residential	µg/m ³	133	112	75	45	58	67	NM	NM	NM	72	112	NM		
AQ 1.3	Monthly Av. (SO ₂)		µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	NM	NM	NM	NM	BDL	BDL	NM	
AQ 1.4	Monthly Av. (NO _x)		µg/m ³	17.8	18.5	25.9	11.4	17.7	NM	NM	NM	NM	18.3	21.8	NM		
AQ 1.5	Annual Av. (PM _{2.5})		µg/m ³	33													

AQ 1.6	Annual Av. (PM ₁₀)		µg/m ³	84											
AQ 1.7	Annual Av. (SO ₂)		µg/m ³	BDL											
AQ 1.8	Annual Av. (NO _x)		µg/m ³	18.8											

4. AIR QUALTY DATA OF PATRAPADA (2020)

Action Code	Action Point	Field Type	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Attach ment	
AQ 1.1	Monthly Av. (PM _{2.5})	Num	µg/m ³	43	34	20	NM	NM	NM	NM	NM	22	24	37	46		
AQ 1.2	Monthly Av. (PM ₁₀)	Residential	µg/m ³	107	104	65	40	45	49	52	NM	66	72	104	105		
AQ 1.3	Monthly Av. (SO ₂)		µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NM	BDL	BDL	BDL	BDL	
AQ 1.4	Monthly Av. (NO _x)		µg/m ³	13.4	14.0	9.2	11.0	12.0	11.2	13.0	NM	13.0	13.8	15.3	14.0		
AQ 1.5	Annual Av. (PM _{2.5})		µg/m ³	32													
AQ 1.6	Annual Av. (PM ₁₀)		µg/m ³	73													
AQ 1.7	Annual Av. (SO ₂)		µg/m ³	BDL													
AQ 1.8	Annual Av. (NO _x)		µg/m ³	12.7													

5. AIR QUALTY DATA OF CHANDRASEKHARPUR (2020)

Action Code	Action Point	Field Type	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Attach ment	
AQ 1.1	Monthly Av. (PM _{2.5})	Num	µg/m ³	37	37	24	17	17	19	18	17	21	20	42	40		
AQ 1.2	Monthly Av. (PM ₁₀)	Residential	µg/m ³	119	119	72	46	51	60	56	52	67	64	99	105		
AQ 1.3	Monthly Av. (SO ₂)		µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
AQ 1.4	Monthly Av. (NO _x)		µg/m ³	15.0	15.6	9.9	9.4	12.8	13.3	13.0	14.9	16.9	14.7	16.7	13.8		
AQ 1.5	Annual Av. (PM _{2.5})		µg/m ³	26													
AQ 1.6	Annual Av. (PM ₁₀)		µg/m ³	76													
AQ 1.7	Annual Av. (SO ₂)		µg/m ³	BDL													
AQ 1.8	Annual Av. (NO _x)		µg/m ³	14.0													

6. AIR QUALTY DATA OF PALASUNI WATER WORKS (2020)

Action Code	Action Point	Field	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Attach ment
AQ 1.1	Monthly Av. (PM _{2.5})	R	µg/m ³	44	52	30	13	15	44	25	44	19	30	57	67	

AQ 1.2	Monthly Av. (PM ₁₀)		µg/m ³	127	107	78	39	49	62	NM	NM	NM	NM	97	113	
AQ 1.3	Monthly Av. (SO ₂)		µg/m ³	BDL	BDL	BDL	BDL	BDL	BDL	NM	NM	NM	NM	BDL	BDL	
AQ 1.4	Monthly Av. (NO _x)		µg/m ³	18.1	19.0	14.5	10.3	12.6	11.9	NM	NM	NM	NM	12.0	15.3	
AQ 1.5	Annual Av. (PM _{2.5})		µg/m ³	37												
AQ 1.6	Annual Av. (PM ₁₀)		µg/m ³	84												
AQ 1.7	Annual Av. (SO ₂)		µg/m ³	BDL												
AQ 1.8	Annual Av. (NO _x)		µg/m ³	14.2												

8. AIR QUALITY DATA (2020)

(Average Air Quality Data of CAAQMS Located at Institute of Minerals and Materials Technology, CSIR Lab Bhubaneswar)

Action Code	Action Point	Field Type	Unit	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Attachment
AQ 1.1	Monthly Av. (PM _{2.5})	Continuous	µg/m ³	98.47	71.02	28.20	14.02	10.96	14.59	16.76	22.63	34.93	30.36	71.33	139.55	
AQ 1.2	Monthly Av. (PM ₁₀)		µg/m ³			47.92	23.19	19.84		28.76	32.58	45.41	73.50	108.22	169.89	
AQ 1.3	Monthly Av. (SO ₂)		µg/m ³										2.47	0.79	0.87	
AQ 1.4	Monthly Av. (NO _x)		µg/m ³	28.78	23.13	12.99	4.25	5.08	3.35	3.03	4.78	11.11	10.98	17.26	27.66	
AQ 1.5	Annual Av. (PM _{2.5})		µg/m ³	46.07												
AQ 1.6	Annual Av. (PM ₁₀)		µg/m ³	61.03												
AQ 1.7	Annual Av. (SO ₂)		µg/m ³													
AQ 1.8	Annual Av. (NO _x)		µg/m ³	12.7												
AQ 1.9	Monthly Meteorological Data	AT	°C	17.63	20.33	27.85	27.15	30.28	29.15	29.51	28.63	29.67	27.78	25.80	22.79	
		RH	%	70.12	69.22	76.11	73.08	77.39	81.26	82.10	86.64	84.11	85.01	70.31	69.91	
		SR	W/m ²													
		BP	mmHg	673.47	708.26	753.64	714.15	749.87	741.81	747.65	744.36	747.87	749.34	756.41	756.96	
		VWS	m/s													
		WS	m/s	0.87	1.07	1.07	1.70	1.83	1.50	1.40	1.48	1.08	1.28	1.17	0.74	
		WD	Deg													
		RF	mm	0.44	1.50	0.40	1.18	1.39	1.33	2.34	7.53	2.12	4.01	0.05	0.00	

09: ANNEXURES (Micro level planning for City Action Plan- Bhubaneswar)

Annex: CB-1

Installation and Commissioning of Monitoring Stations

Action Point	Timeline	Agency
To set up adequate number of real time automatic monitoring stations and to set up daily air quality public information dissemination system based on National Air Quality Index along with health advisory as indicated by the MoEF	12 Months	SPCB, Odisha

Micro Planning

Project	Details of works with location	Project Cost	Source of funds/ Agency	Time Line	Officer Responsible	
					Implemen tation	Review
CAAQ MS-1	Central Lab, Patia, SPCB	1.85 Crores	NCAP	12 Months (By Dec 2021)	Regional Officer, Bhubaneswar	Member Secretary
CAAQ MS-2	IIT Bhubaneswar	1.85 Crores	NCAP	12 Months (By Dec 2021)	Regional Officer, Bhubaneswar	Member Secretary
CAAQ MS-3	IMMT Bhubaneswar	-	IMMT BBSR CSIR Lab	Already operating	<i>IMMT Bhubaneswar</i>	Member Secretary

Timeline of the project- Installation of CAAQMS at Bhubaneswar

Activity	Sub-Activity	Timeline	Remarks
Pre-bidding stage	Preparation of tender document	July-Sept 2020	Completed
Bidding stage	Calling of bids	Oct-Dec 2020	Completed
	Evaluation of bids	March-Jun 2021	Under process
	Release of work order	July 2021	Scheduled
Project execution	Selection of location	August – Sept 2021	Scheduled
	Installation and Commissioning of CAAQMS	Dec 2021	Scheduled
	Connecting CAAQMS to the online CPCB server for real time monitoring	Jan 2021	Scheduled
	Calibration of CAAQMSs		Regular Activity

Mechanism for Monitoring, Review and Reporting

Key performance indicators	Performance assessment		Reasons for delay in completion	Steps taken to minimize the delay
	Parameter	Details		
Timely completion of activities	Procurement	Issue of work order	<ol style="list-style-type: none"> 1. Extension of dates in 1st tender to be published in March 2020 due to COVID 2. E-Tender published in Nov 2020 and Revised e-tender published in Dec 2020. 3. Evaluation of technical bid is delayed second wave of COVID-19. 4. CPCB has instructed not to issue any work order which are funded under NCAP 	Process carried out as per guidelines of General Financial Rules and conditions of Tender documents
	Installation and Commissioning	Under process	As above.	
Operation of the CAAQMS	Total parameters analyzed	Activities to be initiated after installation of CAAQMS		
	No. of non-operation days			
	Calibration of CAAQMSs			
Data availability and usage	Setting public alerts when pollution is high			
	Data availability on public domain through SAMEER App			
	Trend analysis of level of pollutants over a period of time			

Satellite Based AQM and Air Quality Forecasting

Action Point	Timeline	Agency
To use satellite based air quality assessment at a regional scale to complement ground level air quality monitoring.	12 Months	SPCB, Odisha

The IIT Bhubaneswar has been identified as *Technical Knowledge Partner* (TKP) by MoEF &CC and a tripartite MOU has been signed among IIT Bhubanswar, MoEF& CC and SPCB Odisha. With the ratification in 2nd AQMC Meeting, TKP has been assigned a project vide SPCB letter No-1984 Dt. 19-02-2020 to develop high resolution (~ 3km) PM_{2.5} maps using the satellite derived aerosol optical depth over non-attainment cities in Odisha. The title of the project is “High resolution satellite mapping of particulate pollution (PM 2.5) hotspots over Bhubaneswar and other non-attainment cities over the state of Odisha”. The Research Goal/ Deliverables and time line of the project are

Research Goals/Deliverables

- To generate PM_{2.5} spatial maps from satellite derived aerosol optical depth over Bhubaneswar city in the first phase and then expand it to other non-attainment cities over Odisha.
- To understand the advantages and disadvantages of the existing methods of PM_{2.5} mapping over Bhubaneswar.
- Develop executable that can generate PM_{2.5} maps based on multiple satellite datasets that may be used by OSPCB for quick look decision making.

Timeline of the project

Activity/Time	Q1	Q2	Q3	Q4
Purchase high end workstations	x	x		
Recruitment of RA/PA/JRF/SRF	x			
Analyzing the PM _{2.5} data from OSPCB	x	x		
Downloading and analyzing high resolution AOD data	x	x		
Development of statistical relationship between AOD and PM _{2.5}		x	x	
Generate PM _{2.5} map and identify hotspots within cities at a spatial resolution of 1 square km			x	X
Training program for Board Officials			x	X
Publication/Report			x	X

But due to Covid-19 pandemic situation, the job could not be carried out. In view of the above IIT BBSR was allowed extension of time for 09 Month (Till Dec 2021) and revised time schedule for carrying out Satellite based AQM.

Mechanism for Monitoring, Review and Reporting

Key performance indicators	Performance assessment		Reasons for delay in completion	Steps taken to minimize the delay
	Parameter	Details		
Timely completion of activities	Total operational activities		Delay due to Covid-19 pandemic	
	Activities completed with time line		As above.	
	Total spillage vs original time line			
Refinement of action plan based on identification of PM _{2.5} hot spots	Identification and prioritization of action points as per recommendations			
	Identification of hotspots & high impact sources on air pollution of the city			
	Micro planning & implementation for control of pollution due to high impact sources and of hotspots			
Monitoring	Impact on hotspots & high impact pollution sources due to focused actions			

Annex- CB-3:

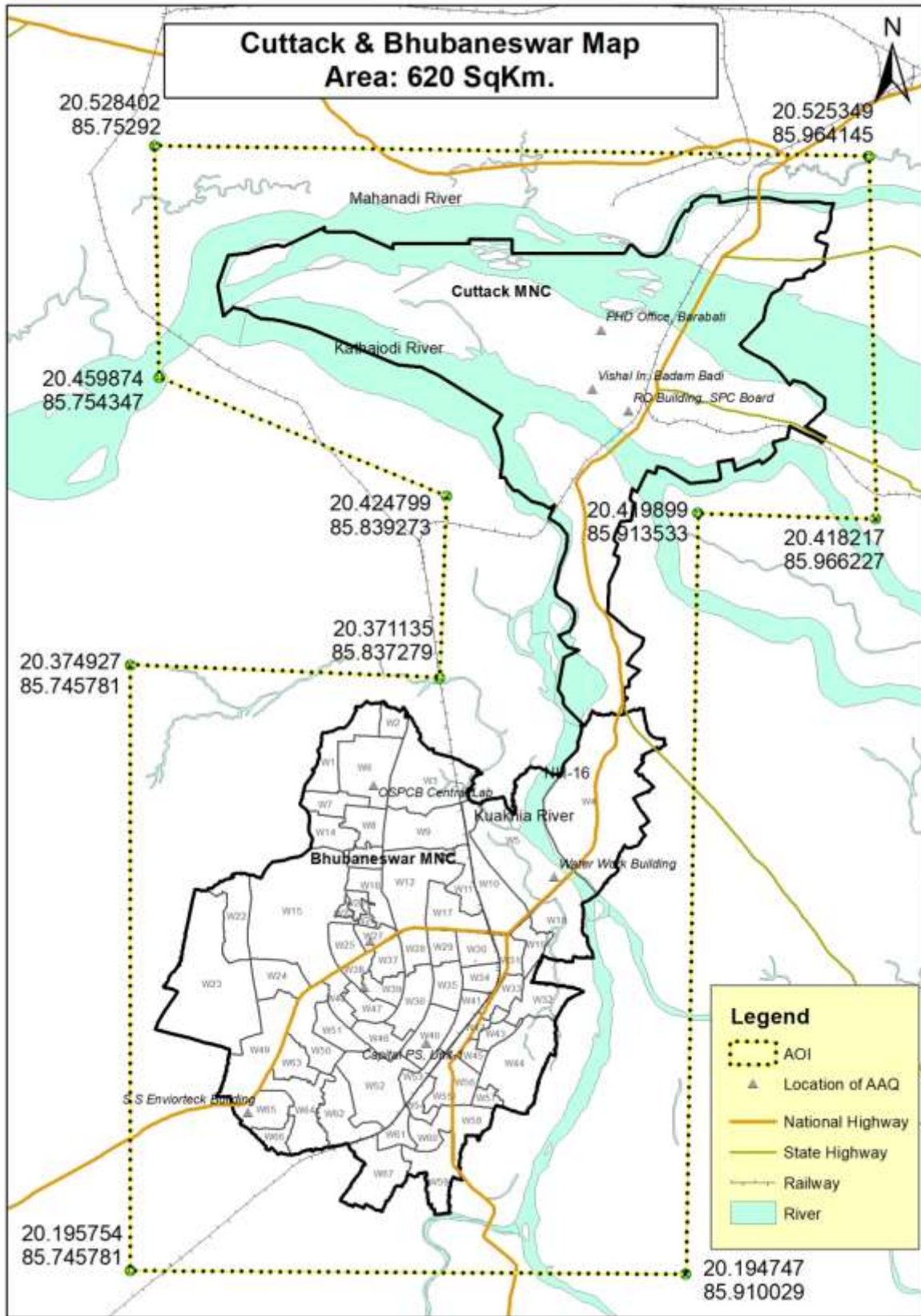
Pollution Source Assessment- Carrying out a Source Apportionment Study

Action Point	Timeline	Agency
Carrying out an Emission Inventory and Source Apportionment Study	18 Months	SPCB, Odisha

A Rapid Source Apportionment Study in association with Institute of Minerals and Materials Technology (IMMT) CSIR, Bhubaneswar for Bhubaneswar and Cuttack is under progress. The study will be completed by 31-12-2021.

Mechanism for Monitoring, Review and Reporting

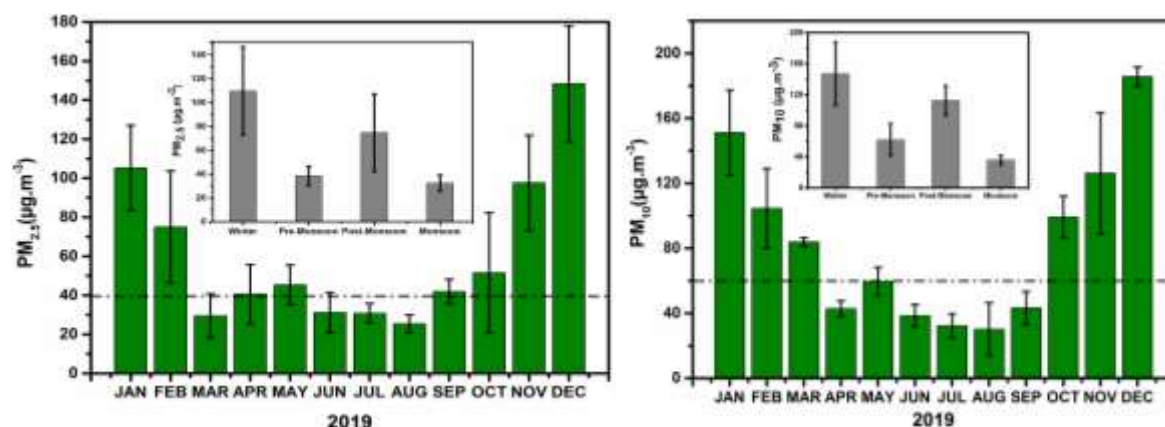
Key performance indicators	Performance assessment		Reasons for delay in completion	Steps taken to minimize the delay
	Parameter	Details		
Timely completion of activities	Total operational activities		Delay due to Covid-19 pandemic	
	Activities completed with time line		As above.	
	Total silage vs original time line			
Refinement of action plan based on SAS	Identification and prioritization of action points as per recommendations			
	Identification of hotspots & high impact sources on air pollution of the city			
	Micro planning & implementation for control of pollution due to high impact sources and of hotspots			
Monitoring	Impact on hotspots& high impact pollution sources due to focussed actions			



A shot report on Impact of Particulate Matter pollution on Ambient Air quality of Bhubaneswar (Funded by SPCB, Odisha)

Year-long observation of particulate matter for Bhubaneswar confirmed that $PM_{2.5}$ and PM_{10} in winter ($54.95 \pm 23.42 \mu\text{g}/\text{m}^3$; $147.34 \pm 42.44 \mu\text{g}/\text{m}^3$ for $PM_{2.5}$ and PM_{10} , respectively) were about 3.5 times higher than that in pre-monsoon ($15.65 \pm 6.16 \mu\text{g}/\text{m}^3$; $41.80 \pm 15.34 \mu\text{g}/\text{m}^3$) suggesting higher aerosol loadings in winter season. **The particulate load over Bhubaneswar originates from mixed sources; predominantly from Vehicular (exhaust and wear and tear), Industrial, Thermal power plant emissions as well as biomass burning. Because of these mixed nature of emissions, the formation of secondary aerosols becomes more favorable, which is also identified as one of the major contributors for Bhubaneswar city in pollution load.**

The monthly average $PM_{2.5}$ load crossed the NAAQ standard of $40 \mu\text{g}/\text{m}^3$ on majority of observation days during November – February. The monthly average fine particulate matter load was also above the NAAQ standard during May, September and October months as well. As reported earlier there was a significant seasonal variation in the fine particulate matter load with maximum values during winter (Dec, Jan, Feb) followed by post-monsoon (Sept, Oct, Nov), pre-monsoon (Mar, Apr, May) and monsoon (Jun, Jul, Aug) months.



Variation of PM over Bhubaneswar city

The monthly average PM_{10} load crossed the NAAQ threshold of $60 \mu\text{g}/\text{m}^3$ on majority of observation days during the winter months (December, January, February) and in March and October, November as well. A significant seasonal variation was observed with maximum coarse particulate matter load during winter and post-monsoons seasons.

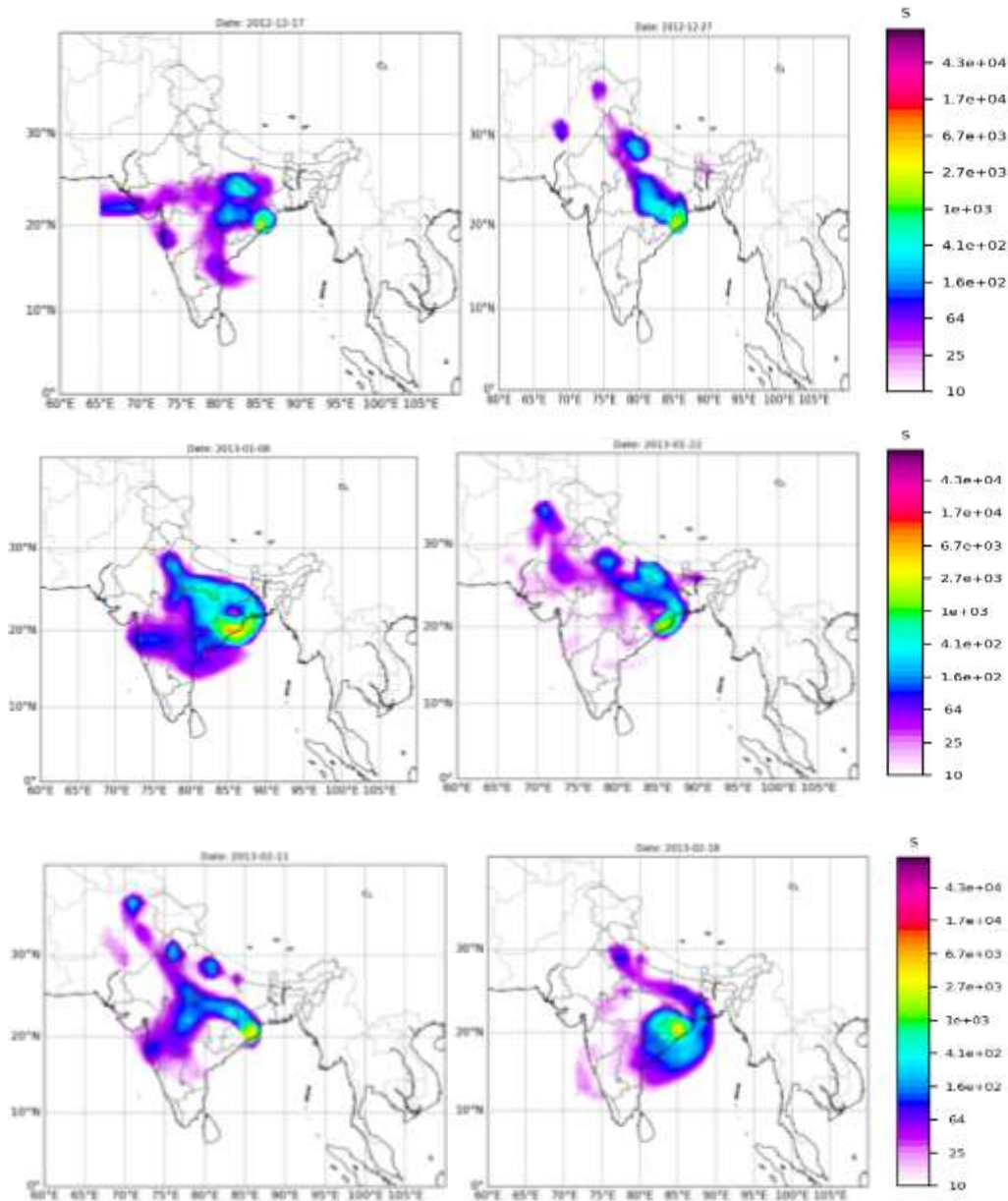
Source Apportionment Study for $PM_{2.5}$ and PM_{10} over Bhubaneswar:

It is important to identify the different sources that contribute to the particulate matter load over Bhubaneswar. Here we made use of the PMF (Positive matrix factorization) tool version 5.0 provided by the US-EPA. It is a multivariate factor analysis tool that molds a specific matrix of sample data into matrices that enables grouping of various potential sources based on observation data at the receptor site. In general, the PMF model provides robust results for the identification of sources in complex atmospheric environments.

Metals in coarse ambient aerosol as markers for source apportionment and their health risk assessment over an eastern coastal urban atmosphere in India

Acid soluble components in the PM_{10} samples were analyzed using ICP-OES (Inductive Coupled Plasma Optical Emission Spectroscopy) and 19 different elements including heavy metals were determined. Enrichment factor analysis attributed the source to either crustal or non-crustal origin. Principal Component Analysis (PCA) revealed that crustal sources, industrial activities, and vehicular emissions were significant contributors to PM mass. The contribution of total average elemental concentration showed a seasonal variation with the lowest ($11.96 \mu\text{g}/\text{m}^3$) and

highest ($17.77\mu\text{g}/\text{m}^3$) during monsoon and winter, respectively, which is relatively less significant than the variation in total. **This observation evidences the predominant contribution of local/regional emission sources to the metallic components in coarse PM_{10} mass, which is corroborated by the wind pattern studies carried out using polar plots and a Lagrangian Particle Dispersion Model (LPDM) FLEXPART.**



Potential emission sensitivity (PES) maps for Bhubaneswar during the sampling days in winter months using 7 days of retro plumes of FLEXPART where 's' is the sensitivity in second.

Annex CB-4:**Training & Skill Development of Public Officials**

Action Point	Time Line	Agency
Training and skill development for public officials and other public functionaries for planning and management and execution of the plan.	On Going	F & E Deptt. SPCB, IoR

TRAINING CALENDER 2021-22**A: Training and Capacity Building for SPCB Officials**

Sl no.	Topic/ Subject	Mode	Duration/ Schedule	Training Agency	Number of Target Participants	Source of Funds
1.	Functioning of Air Pollution Control System (APCS) installed in Industries	Online/ Physical	5 days	ESCI	15	NCAP
2.	Training for preparation And maintenance of Emission inventories	Online/ Physical	5 days	ARAI, Pune	15	NCAP
3.	Training on Air Quality Monitoring techniques	Online/ Physical	5 days	NEERI	15	NCAP
4.	Training on assessment of pollution load of sources.	Online/ Physical	5 days	ARAI, Pune	10	NCAP
5.	Training on the Use of Laboratory Information Management System (LIMS)	Online/ Physical	5 days	TBD	10	NCAP
6.	Training on Noise Monitoring, preparation of Noise Maps and data interpretation	Online/ Physical	5 days	TBD	10	NCAP
7.	Advance Instrumental Analytical Techniques (AAS, ICP-OES, XRF, GC-MS, ATDGC, HPLC, IC, EC/ OC, TOC etc.)	Online/ Physical	5 days + 5 days	NPL	10	NCAP
8.	Laboratory Quality Management &	Online/ Physical	5 days + 5 days	NEERI, DNV, ISO	10	NCAP

	Internal Audit as per ISO: IEC 17025:2017					
9.	Real Time Monitoring of Continuous Ambient Air Quality Monitoring (CAAQM), Data Validation, Interpretation & Presentation.	Online/ Physical	5 days	TBD	10	NCAP
10.	Real Time Monitoring of Continuous Ambient Air Quality Monitoring (CAAQM) Calibration & Quality Assurance, Uncertainty Aspects and Related Formats	Online/ Physical	5 days	TBD	10	NCAP

B: Training and Capacity Building for ULBs and Other Stakeholders

Sl no.	Topic/ Subject	Mode	Duration/ Schedule	Training Agency	Number of Target Participants	Source of Funds
1	For employees of ULBs regarding Control of Air Pollution	Online/ Physical	3 days	TBD	15	NCAP
2	For Site In charge and Supervisors of Construction & Infrastructure Development Projects for control of Dust Pollution and use of Dust App	Online/ Physical	3 days	TBD	15	NCAP
3.	For Making the RWAs & Citizens to adopt environmentally friendly practices and motivate them to lead reduced pollution load lifestyles and recognizing them as Paryavaran Prahar along with development of a Mobile App	Online/ Physical	3 days	TBD	15	NCAP

C: Training and Capacity building of Local Technical Institutes and Industries with the help of IoR identified under NKN/ Other Training Agencies

Sl no.	Topic/ Subject	Mode	Duration/ Schedule	Training Agency	Number of Target Participants	Source of Funds
1	Emission Inventory Methodology	Online/ Physical	5 days	TBD	15	NCAP
2	Air Quality Monitoring techniques	Online/ Physical	5 days	TBD	15	NCAP

Annex- CB-4

Constitution of District Level Monitoring Committee.

Action Point	Time Line	Agency
Action Point: CB- 4.4 Constitution of District Level Monitoring Committee.	-	F & E Deptt. Collector, Angul

GOVERNMENT OF ODISHA
FOREST & ENVIRONMENT DEPARTMENT

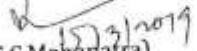
OFFICE-ORDER

Dated, Bhubaneswar, the 16-03-19

ENV-1-20/2019 5621 /F&E, In pursuance of the directions of the Central Pollution Control Board, New Delhi under Section 31A of the Air (Prevention & Control of Pollution) Act, 1981 regarding preparation of action plans for non-attainment cities in compliance to the direction of the Hon'ble National Green Tribunal, Principal Bench, New Delhi dated 8th October, 2018 in O.A. No.681/2018, the Government of Odisha in Forest & Environment Department is pleased to constitute a District Level Monitoring Committee (DLMC) comprising with the following members.

1. The Collector & District Magistrate Chairman
2. Sr. Officer from H & U.D Department Member
3. Sr. Officer from Directorate of Agriculture & Food Production Member
4. Sr. Officer from Directorate of Industries Member
5. DFO of the concerned District Member
6. Concerned Regional Officer, State Pollution Control Board, OdishaMember

The District Level Monitoring Committee (DLMC) shall review the progress and ensure smooth implementation of the Action Plan for six non-attainment cities such as Angul, Balasore, Bhubaneswar, Cuttack, Roukela and Talcher as approved by Central Pollution Control Board, New Delhi and furnish reports regularly to this Department.


(S.C. Mahapatra)
(Addl. Chief Secretary to Government)

P.T.O.

Annex- CB-5: Development of Emergency Response System



Tel : 2564033/2563924
EPABX : 2561909/2562847
E-mail:paribesh1@ospcboard.org
Website: www.ospcboard.org

STATE POLLUTION CONTROL BOARD, ODISHA

[DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]

Paribesh Bhawan, A/118, Nilakantha Nagar, Unit – VIII

Bhubaneswar – 751 012, INDIA

No. 7282 / IND-I-PCP(Misc)-133 Dt. 13-08-2020 /

Email: imdbbsr@nic.in; osdma@osdma.org

To

The Head,
Meteorological Center
B.P.I Air Port, Bhubaneswar, Odisha, Pin-751020
The Managing Director,
Odisha State Disaster Management Authority (OSDMA)
Rajiv Bhavan, Bhubaneswar

Sub: Inclusion of Emergency Response Plan as a part of Disaster Management

Ref: This Office Letter Dtd. 17-02-2020

Sir,

It is to inform that in compliance to Order of Hon'ble National Green Tribunal (NGT) in O.A. No.681/2018, Dtd.06.08.2019, State Pollution Control Board, Odisha has prepared "Air Pollution Emergency Plans (APERP)" for all the seven non-attainment cities viz. Bhubaneswar, Cuttack, Angul, Talcher, Balasore, Rourkela and Kalinganagar. A copy of the same has been communicated to you vide our letter Dtd. 17-02-2020.

Hon'ble NGT in its order Dtd. 20-11-2019 has desired that, "State Disaster Management Authorities in Coordination with the SPCBs and State Unit of Meteorological Department may include emergency as a part of disaster management and develop ERS accordingly which may be placed in public domain".

It is therefore requested that, the steps may be taken to include emergency as a part of disaster management. A copy of the ERS prepared by SPCB is enclosed as reference.

Encl: As above.

Yours faithfully,


MEMBER SECRETARY

Annex PO-1:

Public Outreach: Public awareness and Cooperation

Action Point	Time Line	Agency
Organizing deeper public engagement and forums for public consultation for public understanding of the nature of solutions needed to address the complex problem of sustainable industrial development, urban mobility and waste management.	On Going	F & E Deptt. SPCB, IoR / District and Local Administration

PUBLIC AWARENESS AND PUBLIC ENGAGEMENT CALENDER 2021-22

Sl No	Theme/ Issue	Mode	Duration/ Schedule	Organizing Deptt. / Agency	Target Group	Source of Funds
1.	Clean Environment Hackathon, 2021 (Online Hackathon for moonshot awareness campaign tool to help people to assess environmental impact of their lifestyle, thereby coaxing them to reduce their environmental footprints.)	Online/ Physical	1 day	TBD	30	NCAP
2.	Paryavaran Prahari Programme for orientation of people on various environmental issues by involving them in IEC activities	Online/ Physical	1 day	TBD	30	NCAP
3.	World Earth Day – Restore Our Earth	Online/ Physical	1 day	TBD	30	NCAP
4.	World Environment Day – Ecosystem Restoration	Online/ Physical	1 day	TBD	30	NCAP
5.	Van Mahotsav (Plantation Drives)	Online/ Physical	1 day	TBD	30	NCAP
6.	World Ozone Day - Ozone: All there is between you and UV	Online/ Physical	1 days	TBD	30	NCAP
7.	PUC Awareness Drive	Online/ Physical	1 days	TBD	30	NCAP
8.	Air Pollution Emergency Response System (APERP) Awareness Workshop	Online/ Physical	1 days	TBD	30	NCAP
9.	C&D Waste Management Awareness Workshop	Online/ Physical	1 days	TBD	30	NCAP

	Solid Waste Management and Engaging Ragpickers Society					
10	Fire Crackers Awareness Campaign	Online/ Physical	1 days	TBD	30	NCAP
11	Road Safety Awareness – Traffic Management & Air Pollution	Online/ Physical	1 days	TBD	30	NCAP
12.	Circular Electronics Day – Electronic Waste Awareness Workshop	Online/ Physical	1 days	TBD	30	NCAP
13.	World Wetland’s Day Awareness Programme	Online/ Physical	1 days	TBD	30	NCAP

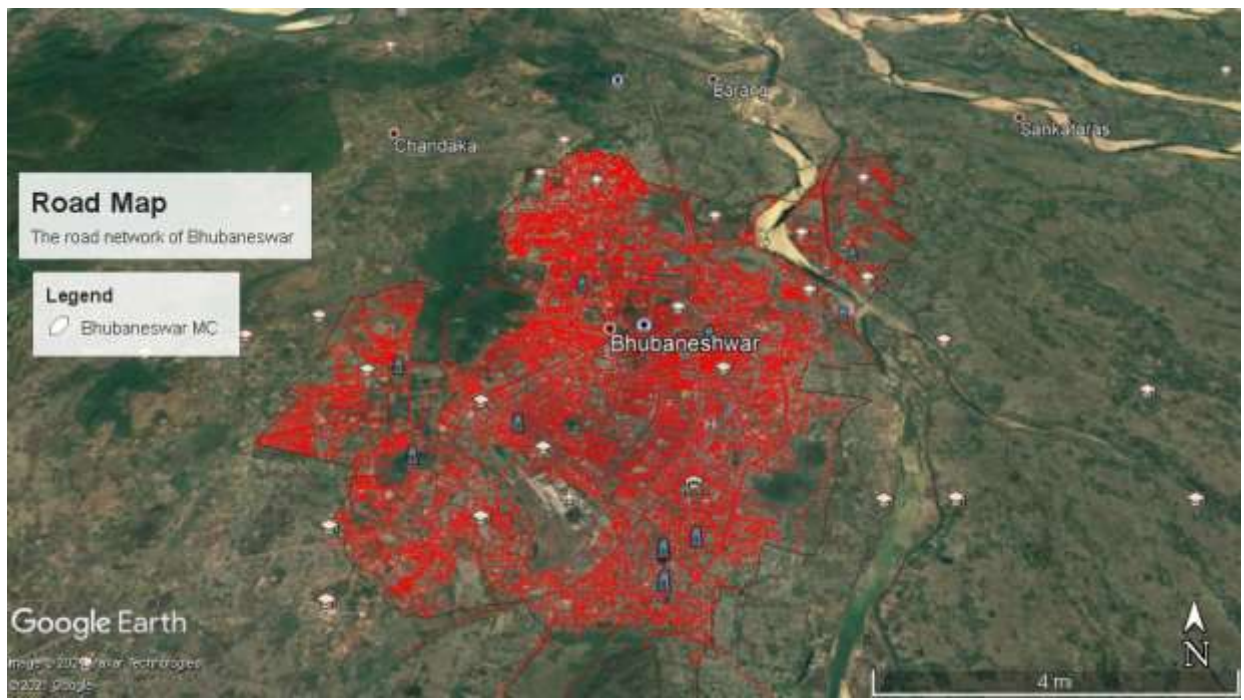
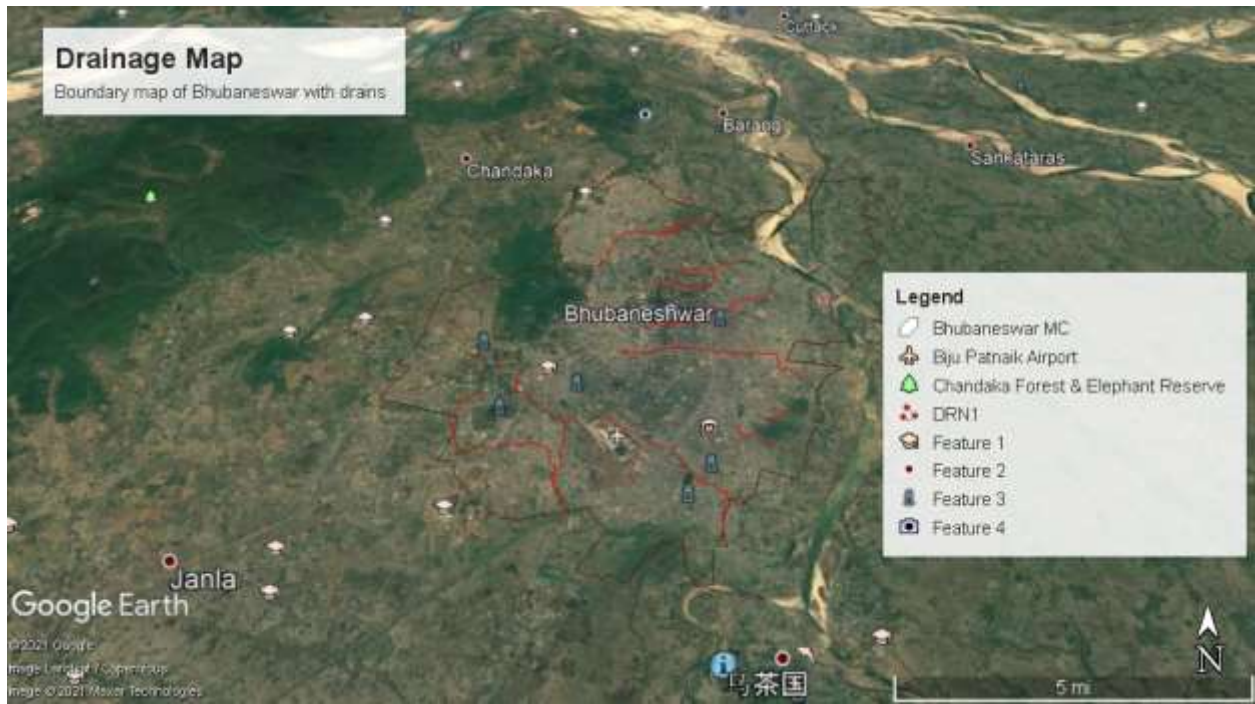
Annex- RD-1

Action Point	Time Line	Agency
RD 1.1: Immediate lifting of solid waste generated from –de-silting and cleaning of municipal drains for its disposal	On Going	BMC

List of Identified Drain in Bhubaneswar

Sl. No.	Name of the Drain	Name of Mouza Covered	Starting Point	Outfall point	Length of the Drain in Km
1	Storm water Drainage system No-1 of Bhubaneswar City	Chandrasekharpur	Forest Lake, Chandrasekharpur	Gangua Nallah	5.7
		Damana			
		Garakana			
2	Storm water Drainage system No-2 of Bhubaneswar City	Garakana	Sainik School Road Culvert	Drain No 3 near Railway Bridge	0.85
3	Storm water Drainage system No-3 of Bhubaneswar City	Samanta Bihar	Gajapati Nagar in front of Sainik School	Gangua Nallah	4.226
		Vani Vihar			
		Gadhakana			
		Samantapuri			
		Baragada			
4	Storm water Drainage system No-4 of Bhubaneswar City	Jaydev Vihar	Ekamra Kanan Lake	Gangua Nallah	7.5
		Madhusudan Nagar			
		Bhoi Nagar			
		Vani Vihar			
		Gadhakana			
		Pandra			
5	Storm water Drainage system No-5 of Bhubaneswar City	Kharavel Nagar	Culvert at Janpath Road	Gangua Nallah	3.542
		Laxmisagar-31			
		Laxmisagar 30			
		Meherpali			
		Baragada			
6	Storm water Drainage system No-6 of Bhubaneswar City	Laxmisagar-30	Budheswari Nagar near Railway Bridge	Gangua Nallah	3.112
7	Storm water Drainage system No-7 of Bhubaneswar City	Bhimapur	Culvert near Banadurga Temple	Gangua Nallah	5.454
		Goutam Nagar			
		Raja Rani			

Sl. No.	Name of the Drain	Name of Mouza Covered	Starting Point	Outfall point	Length of the Drain in Km
		Maha Bhoi Sashan	Ganganagar		
		Nuagaon			
8	Storm water Drainage system No-8 of Bhubaneswar City	Baramunda	OUAT firm in front of Bharapur Elephant Sanctuary	Drain No 9 Panchasakha Nagar	5.362
		Jagamara			
9	Storm water Drainage system No-9 of Bhubaneswar City	Ghatikia	Culvert near CET Ghatikia	Gangua Nallah	15.5
		Shanakarpur			
		Aigania			
		DumDuma			
		Jagamara			
		Begunia			
		Pokhariput			
		Jadupur			
		Kochilaputa			
		Ebaranga			
		Bahadalpur			
10	Storm water Drainage system No-10 of Bhubaneswar City	Nayapalli	Lake near Mamta Ali High School Nayapalli	Gangua Nallah	7.375
		Madhusudan Nagar			
		Bhoi Nagar			
		Satya Nagar			
		Gobinda Prasad			
		Jhadapada			
11	Storm water Drainage system No-1B of Bhubaneswar City	Chandrasekharpur	KIIT Complex	Drain No1 behind Club Town, Chandrasekharpur	2
		Damana			
12	Storm water Drainage system No-1C of Bhubaneswar City	Chandrasekharpur	OMFED Square , Chandrasekharpur	Drain No1 Gadakana	2
		Gadakana			
13	Storm Water Drain No 8A	Baramunda	CRPF Campus	Drain No 8	3
				Total	65.62 Km



Annex RD-1:

Action Point	Time Line	Agency
C&D-Implementation of C&D Waste Rule	On Going	SPCB, Odisha

Tel: 0674-2392104/2390147
e-mail: sanitationhud@gmail.com
Website: www.urbanodisha.gov.in

Government of Odisha
Housing & Urban Development Department
3rd floor, Kharavel Bhavan, Unit-V, Bhubaneswar, PIN:751001

File No. HUD-SANT-POLICY-0005-2021/ Letter No. 1643 Date 28/01/2021

From
G. Mathi Vathanan, IAS,
Principal Secretary to Government

To
All the Collectors
Commissioners of the Municipal Corporations
Project Directors, District Urban Development Agencies
Executive Officers of Municipalities and NACs

Sub: Strategy for Management of Construction and Demolition [C&D] Waste

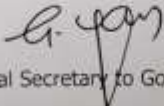
Madam / Sir,

As you are aware, sub-rule (1) of rule 9 of the Construction and Demolition Waste Management Rules, 2016 stipulates for preparation of Policy document for management of C&D waste.

Accordingly, a strategy for management of C&D waste has been prepared and annexed herewith.

The ULB should proactively take up entire responsibilities with necessary investments from ULBs in establishing & running the facility. The Mission Shakti Group / Transgender Group should be associated in the entire value chain and train them adequately so as to take over the responsibility.

All out effort should be made with due vigilance and promptitude for collection, transportation of the C&D waste (including orphaned C&D waste) to the designated place / processing facility and promote the use of various products from C&D waste.

Yours faithfully,

Principal Secretary to Government

Enclosure : As above

Scanned by CamScanner

Memo No. 1644

Date: 28/01/2021

Copy along with copy of the enclosure forwarded to the Director [Env] & Special Secretary to Govt. Forest & Environment Deptt./ Member Secretary, SPCB, Oddisha, Bhubaneswar for kind information and necessary action.



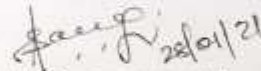
Joint Secretary to Government &
Joint Mission Director, SBM (Urban)

Memo No. 1645

Date: 28/01/2021

Copy along with copy of the enclosure forwarded to Environment Expert, PMU, SBM (Urban) for information and necessary action.

Copy along with copy of the enclosure forwarded to the Guard File.
(sanitationhudedespatch@gmail.com)



Joint Secretary to Government &
Joint Mission Director, SBM (Urban)

Strategy for Management of Construction and Demolition Waste

The strategy for effective management of Construction and Demolition Waste (C&D Waste) in consonance with the provisions of the Construction & Demolition Waste Management Rules, 2016 (hereinafter referred to as "the Rules") emphasises on the roles and accountability of waste generators and various stakeholders, gives thrust to segregation, recovery, reuse, recycle, address in detail the management of C&D waste.

1. Institutional Set up

For decentralised and effective management of the C&D waste in the ULBs, the Mission Shakti Members/Groups/Federations or Transgender Groups/Members shall be chosen and associated in the process by the ULB.

2. Execution of MoU

The members of Mission Shakti Groups / Transgender Groups so assigned on being authorised by the ULB shall execute a MoU in pursuance of sub-rule (5) of rule 6 of the Rules.

The duties and responsibilities of the Mission Shakti Groups / Transgender Groups and ULB shall be agreed upon through the MoU for a period of one year which may be further be extended basing on the performance on such Terms & Conditions as deemed suitable.

3. Allocation of land

The District Collector will provide suitable sites to Urban Local Bodies for setting up of the facility for storage, processing and recycling for construction and demolition waste.

4. Site Selection

The criteria prescribed under sub-rule (1) of rule 7 of the Rules and detailed under Schedule I of the Rules may be followed for site selection.

a. Basic Criteria:

The processing or recycling site shall be away from habitation clusters, forest areas, water bodies, monuments, National Parks, Wetlands, and places of important cultural, historical, or religious interest;

b. Buffer Zone:

A buffer zone of no development shall be maintained around the processing facility if exceeding five Tonnes per day of installed capacity in consultation with State Pollution Control Board.

c. Notifying Locations:

These sites shall be designated/ notified and thereafter publicised by the ULB for storage, processing and recycling facilities for construction and demolition waste.

d. Fencing:

The site so selected shall be fenced or hedged and provided with proper gate to monitor controlled movement of C&D Waste to & from the unit.

e. Installation of weigh bridge

Provisions of weigh bridge to measure quantity of waste brought at landfill site, fire protection equipment and other facilities as may be required may also be considered if the volume & value handled by the C&D Centre justifies.

The concerned Planning authorities shall incorporate the site in the approved land use plan for smooth functioning of the processing facility.

5. Segregation of Waste by Waste Generators

- a. Segregation in streams: Every waste generator shall collect and segregate the construction and demolition waste generated to different streams such as concrete, steel, soil, etc. and ensure that no other waste gets mixed with this waste.
- b. Storage inside premises: The C&D waste shall be stored within the premise or get the waste deposited at collection centre so made by the local body or handover it to the authorised processing facilities;
- c. No littering: The waste generator to ensure that there is no littering on the public places including road & walking Pathway.
- d. Non-obstruction in public places: Avoid deposition of C&D waste on public places to prevent obstruction to the traffic or the public or drains.

6. Waste Management Plan

- a. Waste generators who generate more than 20 MT or more in one day or 300 MT per project in a month shall submit waste management plan to the ULB concerned before undertaking any construction or demolition activity;
- b. On receipt of the plan, ULB shall examine and sanction the waste management plan within a period of one month from the date of receipt
- c. The waste generator shall inform the ULB from time to time for collection, transportation of the C&D Waste and deposit the applicable charges, if any.

7. Surveillance

- a. The Ward Committee shall take steps to identify the orphaned C&D waste within its respective jurisdiction and inform the ULB for transportation to designated site
- b. A Surveillance Team constituted by the ULB shall have overall responsibility of lifting the orphaned C&D waste and dispose it off appropriately. Any net revenue generated shall accrue to the ULB and no one entitled for any claim.
- c. The Surveillance Team also monitor the implementation of the waste management plan from time to time.

8. Collection of C&D Waste

- a. The members of Mission Shakti Groups / Transgender Groups assigned shall collect the C&D waste from the waste generators and transport the same to processing facility.
- b. Charges: ULB may prescribe appropriate rate, norm and notify the charges in tune with provisions contained under sub-rule (5) of rule 4 of the Rules for collection of waste from the site by Mission Shakti Groups / Transgender Groups.

9. Establishment of Processing Facility

Decentralised facilities (up to 5 TPD processing capacity) may be established managed in Partnership with the Mission Shakti Groups / Transgender Groups to process the C&D waste.

The financial support / loan meant for MSME sector / Viable Gap Funding / any other modalities as deemed suitable on case to case basis required for establishment of the facility may be made available or facilitated by the ULB.

10. Adoption of Technology

The technology for processing of C&D waste may be broadly of two types:

- a. Mobile crushers of different types for in-situ processing
- b. Integrated stationary processing plants capable of washing, crushing, and segregating different type of waste

11. Operation and Maintenance

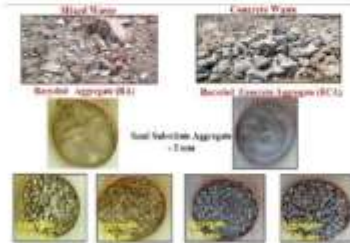
The members of Mission Shakti Groups / Transgender Groups shall take up the O&M of the facilities created by the ULBs & the ULB shall provide necessary support for smooth functioning of processing plants.

12. Earnings

The earnings from the operation of the facility will accrue to the Group concerned which shall be duly recorded by the Group and yearly Balance Sheet shall be submitted to the ULB.

13. Direct produce from recycling of C&D waste

- a. Fine aggregate
- b. Recycled Concrete Aggregates (RCA) of different sizes (5-10 mm, 10-20 mm, 20-40 mm or as required)
- c. Recycled Aggregates (RA) of different sizes (5-10 mm, 10-20 mm, 20-40 mm or as required)
- d. The produce of C&D waste processing i.e. fine and coarse aggregates may be used in road construction.



14. Products from C&D Waste

The various downstream products which can be manufactured using recycled C&D waste are:

- a. Bricks, blocks, tiles, hollow bricks, wall tiles;



Recycled concrete blocks & pavers

- b. Pavers, kerb stones;



Kerb Stones



Concrete Pavers



Tack Tiles



Wall Tiles

- c. Park benches, drain covers, planters, compound wall, fence post, tree guards, tree pit covers, manhole covers, underground cable covers, pre-cast boundary wall panels and poles, etc.



Park Bench



Park Bench



Drain Cover



Planter



Precast Compound Wall



Fence Post



Wall Cladding



Jalli

The price of the products shall be so fixed vis-à-vis that available in the market to encourage the buyers use the products from C&D Waste management facility.

15. Marketing

ULB and the Mission Shakti Group / Transgender Group shall jointly promote the marketing and use of the products from the C&D waste.

16. Obligation by Departments

As per the code of standards and practices prepared by the Bureau of Indian Standards and Indian Roads Congress, the recycled materials and products of construction and demolition waste can be used in the construction of civil structures and roads.

The CPWD has mandated the use of recycled portions of C&D waste in construction activities if the same is available within 100 kilometres of the construction site. As per National Building Code (NBC- CED 46) of India 2005: Part 11 of NBC 2005, Recycled Coarse Aggregate may be used in concrete for bulk fills, bank protection, base/fill of drainage structures, pavements, sidewalks, kerbs, and gutters etc.



Road constructed with C&D waste processed material at Delhi

17. Enabling provision in SoR

- a. The Works Department may incorporate relevant provisions in the Schedule of Rates (SoR) specifying use of materials made from C&D waste in the range of 10-20% in pursuance of the provisions contained under sub-rule (4) of rule 9 of the Rules, and rate thereof may be prescribed and notified.
- b. The concerned Project executing agency shall ensure the implementation of the above provision.
- c. In respect of all Municipal and Government contracts, after completion of work, before final payment it should be ensured that the Contractor has transported the C&D waste to the location designated by ULB for the purpose on his own cost or by paying required fee through ULB.

18. Charges

- a. Charges for collection and transportation of C&D waste shall be paid by waste generators as notified by the ULB to the concerned Mission Shakti Group / Transgender Group designated by the ULB.
- b. Waste generators who generate more than 20 tons or more in one day or 300 tons per project in a month shall have to pay for the processing and disposal of C&D waste generated by them, apart from the payment for storage, collection, and transportation of C&D waste to the designated site as notified by the ULB.

19. Measures to reduce environmental pollution in processing facility

- a. The approach and or internal roads of the processing facility may be concreted or paved to avoid the generation of dust particles due to vehicular

movement and shall be so designed to ensure free movement of vehicles and other machinery.

- b. A vegetative boundary shall be made around Processing or Recycling plant or site to strengthen the buffer zone.

20. Capacity Building

The ULBs should arrange training on the C&D waste management to all relevant stakeholders.

21. IEC

ULB should disseminate roles and responsibilities of different stakeholders through different modes of mass communication.

22. Activities and Timelines for Establishing Facilities

Sl. No.	Activities	Timeline
1	Identification of sites for receiving the waste and putting up of processing Facility	Within one month from the date of Notification of the Policy
2	Construction of processing facility	Within three months from the date of identification of site
3	Procurement of equipment	Within three months from the date of identification of site
4	Identification of Mission Shakti Group / Transgender Group and execution of MoU	Within one month from the date of identification of site and execution of MoU
5	Capacity Building of the identified Mission Shakti Group / Transgender Group	Within one month from the date of identification of the Group
6	Functioning of the facility	Within four months from the date of Notification of the Policy

23. Conclusion

In the beginning ULB should proactively take up entire responsibilities with necessary investments from ULBs in establishing & running the facility & in the meanwhile groom the Mission Shakti Group / Transgender Group to take over the responsibility gradually.

All-out effort should be made with due vigilance and promptitude for collection, transportation of the C&D waste (including orphaned C&D waste) to the designated place / processing facility and promote the use of various products from C&D waste.

* * * * *

Annex VE-3

Action Point	Time Line	Agency
VE-3.5 Number of Vehicles Registered in the City	On Going	SPCB, Odisha

Bhubaneswar

Year	Motor- cycle	Passenger car	Cab	Auto	E rickshaw	Van	Bus	Bus (Stage carriage)	Truck	Agricultural tractor- trailer	Construction Equipment Vehicle	Others	LCV	Total
2005	23966	3707	369	1383	0	0	344	608	1097	435	16	27		31952
2006	28692	4245	323	1589	0	2	347	621	1404	534	10	24		37791
2007	26332	4880	292	1876	0	0	323	802	1089	460	4	33		36091
2008	28290	6436	377	2305	0	1	459	1145	1262	601	6	51		40933
2009	39560	9414	581	3184	0	2	630	1155	1530	710	1	74		56841
2010	53201	12213	872	3164	0	1	761	808	1922	935	5	33		73915
2011	56064	12267	1023	2765	0	3	682	857	1786	711	13	83		76254
2012	55797	12772	1388	3344	0	2	397	559	1907	609	2	72		76849
2013	54899	12926	1536	3240	0	52	181	158	1940	772	25	371		76100
2014	41933	12083	1334	2007	0	9	143	100	1807	666	25	232		60339
2015	37847	12371	1413	1112	0	1	147	76	1638	351	10	44		55010
2016	41619	12500	2240	1062	0	2	135	69	1652	620	15	41		59955
2017	49353	16792	1879	1024	6	1	199	341	1773	521	15	86		71990
2018	52582	16852	1301	1187	11	4	174	83	2202	302	64	166		74928
Total	590135	149458	14928	29242	17	80	4922	7382	23009	8227	211	1337		

Annex VE-6

Action Point	Time Line	Agency
VE-4.1 Check on fuel adulteration and random monitoring of fuel quality data	On Going	SPCB, Odisha

Status on Fuels (MS, HSD, SKO, Other) in retail outlets for Non-Attainment cities of Odisha by IOCL.

Sl No.	Name of the non-attainment city	Number of Fuel Stations	Quantity of MS Supplied in KL during 2020-21	Quantity of HSD Supplied in KL during 2020-21	Quantity of SKO Supplied in KL during 2020-21	Quantity of Other fuels if any Supplied in KL during 2020-21	Percentage of retail outlet sampling done per month to check
1.	Bhubaneswar	25	42112.5	39862.5	1308	0	
2.	Cuttack	13	15891.0	15266.0	1068	0	
3.	Balasore	3	1982.0	1964.0	2700	0	
4.	Angul	5	4574.5	4353.5	3244	0	
5.	Talcher	2	1452.0	16164.0	0	0	
6.	Rourkela						
7.	Kalinga-Nagar-Jajpur Road	2	1188.0	1482.0	0	0	

Annex VE-6

Action Point	Time Line	Agency
VE-6.5 Assess and introduce a city bus system of appropriate fleet size of small buses and desirable bus type (including intermediate public transport, IPT), replete with GPS tracking, ETVMs for fare collection and Passenger Information Systems. Including Route Plan	On Going	SPCB, Odisha

PUBLIC TRANSPORT AND INTERMEDIATE PUBLIC TRANSPORT

Travel characteristics

Public Transport (PT) in Bhubaneswar consists of city buses and rails connecting inter and intra-city destinations, supported by intermediate public transport (IPT) in the form of auto-rickshaws (primarily diesel-based, individually hailed or shared) and cabs.

At present, CRUT operates 200 buses within the city. In addition, multiple private operators run buses (72 in number) along specific routes, mainly connecting Cuttack and Khurda (BCBMP report, 2018). The average daily ridership of CRUT-operated buses are 91,706 (CRUT data, Oct, 22, 2019), of

which 33% trips are work-based and 29% are for education. Buses are supplemented on some routes by shared autos connecting important junctions across the city. Autos are registered with the RTO and are operated privately, albeit with unions, 76 battery-operated auto-rickshaws were registered with the RTO in the past year (2019). Also, around 35,000 auto-rickshaws (90% of them diesel-based) and 6000 diesel taxis operate in the day.

Bhubaneswar Railway Station, Baramunda Bus Stand, and the bus terminal at Master Canteen are the most important passenger terminals for rails and buses. About 40% of the total number of bus passengers in the city use Bhubaneswar Railway Station, and around 90,000 rail trips are made on a normal working day.

Existing PT & IPT Systems

CRUT usually operates its buses on 22 routes at a frequency of 1-6 buses per hour during a 17-hour operation cycle from 5.30 AM to 10.30 PM, and as of mid-2020, from 6.00 AM to 8.30 PM, reduced due to COVID-19. Bus frequencies can be geographically divided into low (Old Bhubaneswar, Jatani, East Kuakhai), medium (in the majority of areas), and high (NH-16). Of nearly 700 bus stops across the city, 10 handle around 42% of the boarding-alighting traffic, with Vani Vihar and Master Canteen handling the highest passenger traffic. CRUT has built 200 bus queue shelters (BQS) for increased passenger convenience (including seating area, backlit signage board with MO Bus network map, and GPS-enabled passenger information system). At present, around 140 BQS are also equipped with the bike-sharing system (MO CYCLE), integrated to support last-mile connectivity. In addition, three bus terminals and two depots are in use. The routes of CRUT-operated buses with important stations are depicted in Figure-19 and the operational details can be found in Annex-1.

There are buses operating in the periphery of low-incomes areas as well. Figure 20 shows the location of the city's slum areas and the existing bus routes, based on slum profile data from 2008. A significant share of slums is not well-connected to the bus network, with bus stops more than a km away.

In addition to buses, shared auto services operate on nine major routes connecting the key junctions of the city, namely Kalpana Square, Master Canteen, Baramunda, Acharya Vihar Square, Rasulgarh Square and Patia, as shown in Annex-1 (BCBMP Report, 2018).

PT & IPT Operators

The operation of buses is managed by CRUT under gross-cost contracts, currently through two private operators (Narbada Travels and Travel Times). The operations are supported by ITS from the control centre. The other private operators operate their buses under permits from the RTO. The Orissa State Road Transport Corporation (OSRTC) provides regional bus transport services.

The city has no fixed metering system for its IPT services. Pre-paid autos are available at the railway stations. Apart from the regular private and shared services, the city also provides Pink Auto Services for the safety of female commuters.

Ongoing Projects

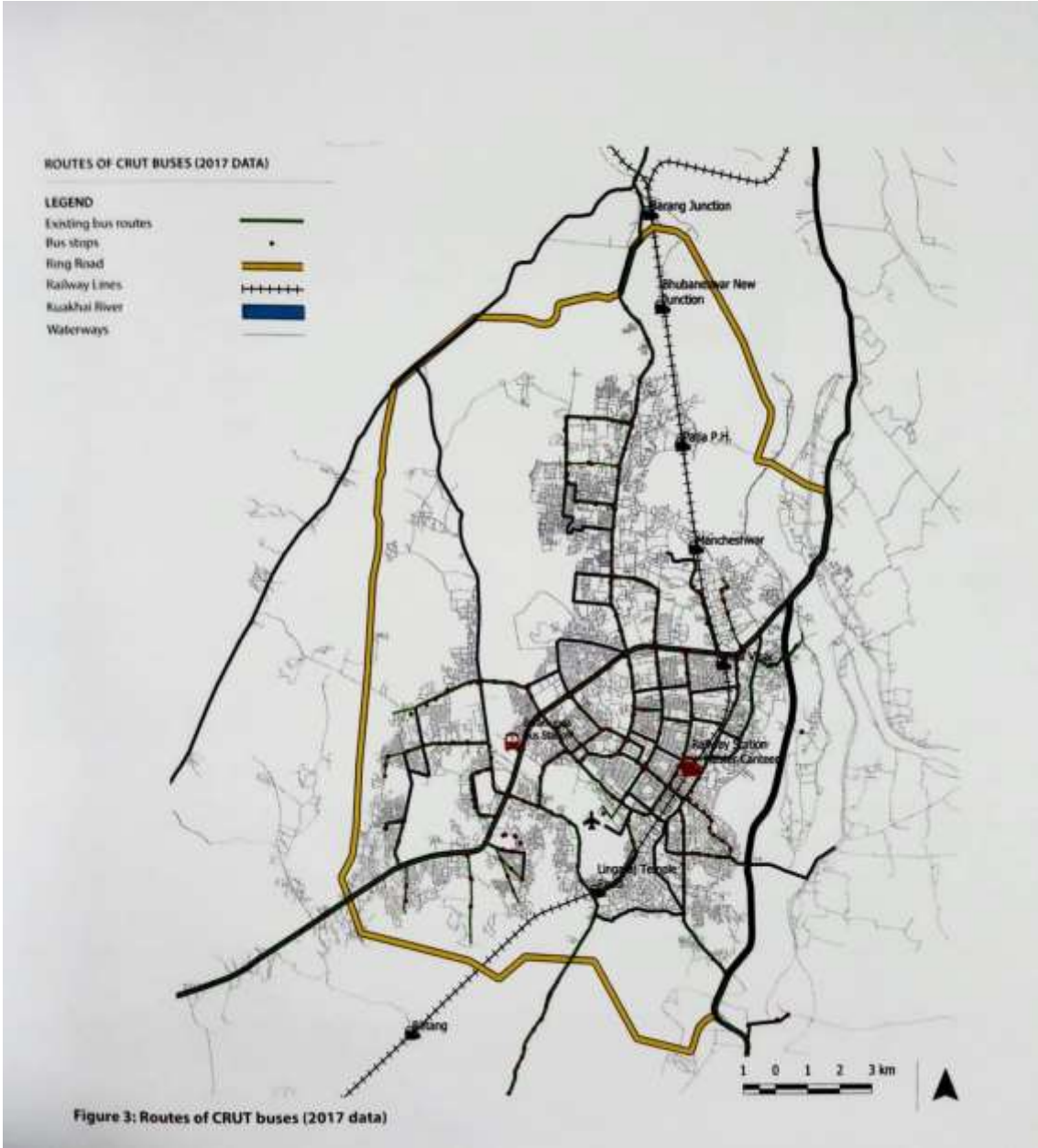
The city is either implementing, or is in an advanced preparatory stage of the following projects to improve public transportation in the city:

- Improvement of bus services as per findings from the BCBMP study
- Procurement of 150 buses, including 50 electric buses, for wider coverage and better services
- An e-mobility plan for buses and e-autos (Bhubaneswar E-Mobility Plan)
- New bus terminals and depots to be built at the identified locations, and the various modes integrated at the multi-modal transit Centre (MMTC)
- Improvement of the existing bus stops
- Improve the PIS and ITS

Walking and Cycling

Of the 1265 km of road network under BMC, only 49.7 km has footpaths (BCBMP Action Strategy Report, 2017). Also, the present footpath facilities are mostly not continuous, and often encroached upon by parked vehicles, construction materials, light poles, etc. Many intersections are unsafe for pedestrians and cyclists. Often the designated crossings are bit respected by motorized modes, leaving no space to cross at all, and resulting in pedestrian-vehicle conflicts. Moreover, signalized intersections lack exclusive pedestrian crossings, even at places like Jayadev Vihar and Kalpana Square, which experience over 7000 pedestrians in peak hours (see Annex 1).

As far as cycling is concerned, the city has 40 km of a dedicated cycle lane network, a large part of which is physically segregated from motorized traffic. In addition, a public bike-sharing system (“MO CYCLE”) is being implemented by CRUT (see Figure 25). This system has a fleet of 2000 cycles and 363 stations, and is operated through a mobile app. This mobile app-based facility is currently being provided through three private operators - - Yulu, Yanna and Hexi - - and managed by CRUT. The bicycles can be unlocked from one station and returned to any other station in the system. The operation and maintenance of the bike facilities are done through private operators. Since its launch in November, 2018, the average daily ridership between December 2018 and November, 2019 was about 750 (CRUT). However, the current COVID crisis has hit the numbers severely. At present, the cycle tracks face issues such as encroachment by vehicles, resulting in unsafe conditions for riders.

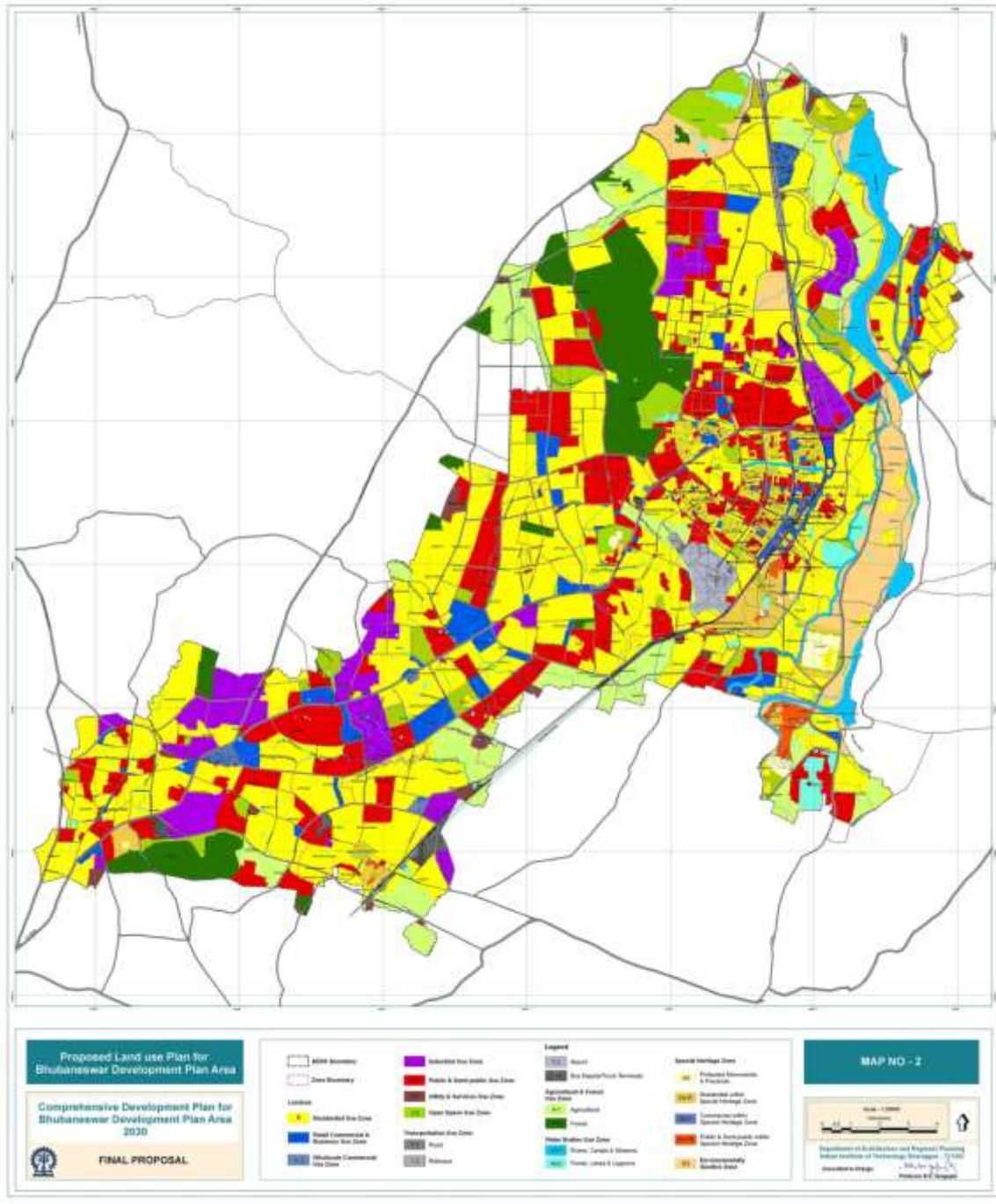


Annex VE-13

Action Point	Time Line	Agency
VE-13.4 Compact city development to reduce distances and improve access	On Going	SPCB, Odisha

Existing and proposed land use in Bhubaneswar Development Authority Planning Area (Source LCMP, Bhubaneswar, 2021)

S. NO.	LAND USE TYPE	EXISTING LAND USE (%)	PROPOSED LAND USE (%) BY 2030
1	Residential use	12.4	33.7
2	Commercial use	0.83	2.94
3	Industrial use	1.15	4.18
4	Public & Semi-public use	3.57	12.65
5	Utilities and services	0.27	1.05
6	Transportation use	4.67	14.58
7	Total developable area	22.89	69.1



Land Use Map for Bhubaneswar (CDP- 2030; BDA Bhubaneswar)

Annex IP-1:**INDUSTRIAL AIR POLLUTION CONTROL**

Action Point	Time Line	Agency
IP-1.1- Intensify monitoring of Industries	On Going	SPCB, Odisha

**List of Red and Orange Industries in Air Shed Area of Bhubaneswar City under
Khorda District**

Sl. No	Name of the Unit	Location	Category (Red/Orange)	Sector	Product	Capacity
1.	Anmol Biscuits Limited,	Chandaka, Bhubaneswar	Orange	Confectionery	Biscuit	52,983 TPA Cakes- 3,600 TPA
2.	Bharat Motors Ltd,	Pahal, Bhubaneswar	Orange	Servicing Station	Servicing and Repairing of Vehicles	25 Nos/ Day
3.	Falcon Marine Experts Ltd,	Chandka I/E, Bhubaneswar	Orange	Sea Food Processing	Prwan Shrimp (IGF Value added)	800 MT/ Annum
4.	Falcon Marine Exports Ltd,	Mancheswar /I/E Bhubaneswar	Orange	Sea Food Processing	Frozen Prawn/ Shrimp,	600 TPA
5.	Gargson Automobiles Pvt Ltd.,	Nayapalli, Bhubaneswar	Orange	Service Station	Automobile Servicing and Repairs	25 Nos/ Day
6.	New Age Media & Publication Pvt Ltd.,	Mancheswar /I/E Bhubaneswar	Orange	Printing Press	News paper Printing	46520 Nos/ Day
7.	Grassland Herbs & Agrofoods (P) Ltd,	Chandaka I/E, Bhubaneswar	Orange	Cashew Processing	Cashew Kernels & Herbs	1200 TPA
8.	Hempcann Solution Pvt. Ltd.,	Kalarahanga, Bhubaneswar	Orange	Ayurvedic Medicines	Ayurvedic Medicines, Cosmetics & Dietary Supplements	120 KG / Day
9.	J.S. Oil Industries Ltd,	At/Po- Janla-752054, Dist-Khordha	Orange	Par-Boiled rice Mill	Rice, Bran, Broken Rice	1428 TPM, 105 TPM, 42 TPM
10.	Kunj Alloys (P) Ltd,	Mancheswar I/E, Bhubaneswar	Orange	Meta Extrusion	Aluminum Wire Rod, Aluminum & ASCR Conductor	500 TPM

11.	Kurlon Ltd (PUF Division)	CNI Complex, Patia	Orange	PU Foam	P.U. Foam Bonded Foam and allied products	12780 TPNM
12.	Maa Sarala Agro products (P) Ltd,	Ogalapada, Janla	Orange	Parboiled Rice Mill	Boiled Rice Bran Raw Rice Rice Bran	600 TPM 35 TPM 528 TPM 72 TPM
13.	Mahadev Cold Storage & Ice Plant,	Mancheswar IE Bhubaneswar	Orange	Cold storage	Ice Block	40 TPD
14.	Mangturam Saralia Foods (P) Ltd,	Mancheswar IE Bhubaneswar	Orange	Ice Cream	Ice Cream	29 KLM
15.	Nakshatra Astro Media Pvt. Ltd.	Chandaka IE, Bhubaneswar	Orange	Printing	Panjika Astro Books	3000 Nos./ Annum
16.	Prime Agro Food Processing Pvt Ltd,	Mancheswar IE Bhubaneswar	Orange	Food Processing	Vegetable Sauces & Pickles	225 TPM
17.	Prime Agro Food Processing Pvt Ltd,	Mancheswar IE Bhubaneswar	Orange	Soft Drinks Beverage	Sauce, Squash, Pickles & Jam & Namkeen & Noodles	13.5 TPM 24 TPM
18.	Qualitech Innovative Solutions,	Jnala IE	Orange	Confectionery	Cake, Biscuits, Bread, Donuts	1200 TPA
19.	Sahi export Pvt. Ltd.,	Mancheswar IE Bhubaneswar	Orange	Garments	Readymate Garments	3,00,000 Nos/ Month
20.	Shimpo Sea Foods,	Chandaka IE Bhubaneswa	Orange	Sea Food Processing	Frozen shrimps/ Prawan, Crab	180 TPM
21.	Shiva Frozen (P) Ltd,	Chandaka IE Bhubaneswa	Orange	Sea Food Processing	Frozen Headon Fish & Prawn	1200 TPA
22.	Shree Bharat Motors,	Pahal , Bhubaneswar,	Orange	Automobile Servicing	Servicing & Repairing of Vehicle	25 Nos/ Day
23.	Summa Real Media Pvt. Ltd.,	Khandagiri, Bhubaneswar,	Orange	Printing Press	Printing of Newspaper	4121 TPM
24.	Teekay Foams (P)Ltd,	Mancheswar Bhubaneswar	Orange	PU Foams	P.U. Foams	33 TPM
25.	Teekay Marines (P) Ltd,	Chandaka IE Bhubaneswar	Orange	Sea Food Processing	Frozen Shrim, Fish, Crab	164 TPM
26.	VE Commercial Vechile (P) Ltd,	Patrapada, Bhubaneswar ,	Orange	Automobile Servicing	Servicing and Repairing of Heavy Vechiles	15 Nos/ Month
27.	Kwality Bottler's (P) Ltd,	Ogalapada, Janla	Orange	IMFL	IMFL	12000 Cases/ Month
28.	Magnum Fibres Pvt Ltd.,	Mancheswar IE Bhubaneswar	Orange	HDPE	HDPE Twine, Rope and Pipes	53 TPM
29.	Utkal Exports,	Mancheswar IE Bhubaneswar	Orange	Sea Food Processing	Frozen Shrimps/ Fish	10 TPM
30.	MVH Food Industries,	Chandaka IE Bhubaneswar,	Orange	Medicines	Glucose, Food Supplement & Syrup and Tablets	180 TPM
31.	Utkal Feeds Pvt. Ltd,	Mancheswar IE Bhubaneswar	Orange	Poultry Feeds	Poultry Feeds	800 TPM

32.	Oriental Bottling (p) Ltd,	Bhagabanpur IE Bhubaneswar	Orange	IMFL Bottling	Indian Made Foreign Liquor	148798 Cases / Month
33.	Patnala Rice Land Pvt Ltd,	Chandaka I/E, Bhubaneswar	Orange	Raw Rice	Polished Rice Broken Rice Bran	520 TPM, 225 TPM 50 TPM
34.	Jyote Motors (P) Ltd,	Nayapalli, Bhubaneswar	Orange	Automobil e Servicing	Reparing & Sevicing of Vehicles	30 Nos/ Day
35.	Nilachal Bakery Private Limited,	Mancheswar IE Bhubaneswar	Orange	Confection ery	Bread & Rusk	1.5 TPD
36.	National Informatics Centre (NIC),	Sachivalaya Marg, Bhubaneswar,	Orange	Informatics	DG SET	03 Nos
37.	Bhubaneswar Hotel,	Cuttack Road, Bhubaneswar,	Orange	Hotels	Hotel unit	Rooms-46 nos
38.	Chandrakala Guest House,	Ashok Nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-30 nos
39.	Hotel 7 Miles,	Chandaka Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-24 nos
40.	Hotel Gokul Plaza,	Ashok Nagar, Bhubaneswar,	Orange	Hotels	Hotel unit	Rooms-60 nos
41.	Hotel Grand Central,	Old Station Bazar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-32 nos
42.	Hotel Kalinga Ashok,	Goutam Nagar Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-64 nos
43.	Hotel Keshari,	Station Square, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-40 nos
44.	Hotel Pal Regency (P) Ltd.,	Pahal, Bhubaneswar,	Orange	Hotels	Hotel unit	Rooms-45 nos
45.	Hotel Pal Regency(p) Ltd,	Jayadev Vihar Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-74 nos
46.	Hotel Prangan,	Cuttack Road, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-45 nos
47.	Hotel Rashmi Plaza,	Jayadev Vihar, Bhubaneswar,	Orange	Hotels	Hotel unit	Rooms-56 nos
48.	Hotel Sambit Palace,	Ashok nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-30 nos
49.	Hotel Sambit Royale	Ashok nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-35 nos
50.	Hotel Siddharth,	Nayapalli, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-43 nos
51.	Hotel Swapnapuri,	Saheed nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-21 nos
52.	Hotel Swosti Grand,	Janpath,Bhubane swar	Orange	Hotels	Hotel unit	Rooms-57 nos
53.	Hotel Upendra,	Saheed nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-48 nos
54.	Hotel Urmee Ltd	Rasulgarh, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-42 nos
55.	LA Franklin Hote	Rasulgarh Bhubaneswar,	Orange	Hotels	Hotel unit	Rooms-61 nos
56.	Lalchand Resorts (P) Ltd,	Janapath, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-55 nos

57.	Mayfair Convention	Jayadev Vihar Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-20 nos
58.	Miland palace Hotel,	Cuttack Road, Bhubaneswar,	Orange	Hotels	Hotel unit	Rooms-36 nos
59.	Pabitra Royal Regency Pvt. Ltd,	Patia, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-42 nos
60.	Pantha Nivas, Bhubaneswar,	Lewis Road, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-54 nos
61.	Rajendra Residency	Station Square, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-35 nos
62.	Royal Hotels(P) Ltd,	Janpath, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-44 nos
63.	Sai Amrit Residency	Ashok Nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-55 nos
64.	Sai Shakti Guest House,	Sahid Nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-36 nos
65.	Sandy Resort(P) Ltd,	Jayadev Vihar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-66 nos
66.	Saphire Plaza,	Cuttack Road, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-30 nos
67.	Shree Bijayshree Routray (Hotel Unit),	Laxmi Sagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-34 nos
68.	Suraj Guest House,	Samanta Vihar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-32 nos
69.	Suryansh Hotel & Resorts	Jayadev Vihar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-43 nos
70.	The Tara Residency	Ashok Nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-34 nos
71.	Trident Hotel,	Nayapalli, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-62 nos
72.	VITS Hotel,	Cuttack Road Bhubaneswar	Orange	Hotels	Hotel unit	Rooms- 69 nos
73.	Navyuga Hotels and Resorts	Chandaka IE Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-36 nos
74.	Hotel Arya Mahal (P) Ltd,	Kharvel nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-30 nos
75.	Beyond Projects Pvt. Ltd,	Mancheswar IE Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-68 nos
76.	Hotel Sishmo,	Goutam Nagar, Bhubaneswar	Orange	Hotels	Hotel unit	Rooms-72 nos
77.	All India Institute of Medical Science (AIIMS),	Dumduma, Bhubaneswar,	Red	HCU	Multispecialty Hospital	Beds- 978
78.	AMRI Hospital,	Khandagiri, Bhubaneswar,	Red	HCU	Multispecialty Hospital	Beds- 320
79.	Ananda Industrial Gases ,	Mancheswar IE Bhubaneswar	Red	Industrial Gases	Dissolved Acetylene-	600 Cum / Months
80.	Annapura Memorial hospital,	Old Town, Bhubaneswar	Red	HCU	Bedded Hospital	Bed: 100
81.	Apollo Hospitals Enterprise Ltd,	Sainik School Road, Bhubaneswar,	Red	HCU	Multispecialty Hospital	350 Beds
82.	Bhagirathi Metal Industries Pvt. Ltd,	Rasulgarh, Bhubaneswar ,	Red		Hand Pump Parts	20,000 Nos/ Annum

83.	Bharat Petroleum Corporation	Air port, Bhubaneswar ,	Red	POL Storage	2 Nos of underground storage tank of Aviation Fuel	200 KL
84.	Bhubaneswar Dairy, OMFED,	Chandresekharpur Bhubaneswar	Red	Diary Products	Ghee Flavoured Milk, Curd, Table Butter	400 TPM
85.	Blue wheel National Healthcare & Educational Trust	Mancheswar IE Bhubaneswar,	Red	HCU	Hospital	100 Beds
86.	Capital Hospital	Unit- VI, Bhubaneswar	Red	HCU	Hospital	547 Beds
87.	Dinbandhu Foundation For ERSED (Trust),	Chandaka IE Bhubaneswar	Red	STP	Sewage Treatment Plant (STP)	100 KLD
88.	ESIC Hospital,	Nayapalli, Bhubaneswar	Red	HCU	Hospital	100 Beds
89.	Gopi Textiles(P) Ltd,	Ogalapada, Janla, Khordha	Red	Garments	Gamucha & Lungi	45 MT/ Month
90.	Institute of Medical Sciences (SUM Hospital),	Kalinga Nagar, Bhubaneswar	Red	HCU	Multispecialty Hospital	500 Beds
91.	Kalinga Alloys & Ispat (P) Ltd.,	Mancheswar IE Bhubaneswar	Red	Ferro Chrome	FeSi, FeCr, FeMn, SiMn and Carbon Product	150 TPM 120 TPM
92.	Kalinga Alloys & Ispat (P) Ltd.,	MancheswarIE Bhubaneswar	Red	Ferro Chrome	FeSi, FeCr, FeMn, SiMn	150 TPM
93.	Kalinga Hospital,	C.S.Pur, Bhubaneswar,	Red	HCU	Multispecialty Hospital	Beds-250
94.	Kanungo Institute of Diabetics Specialities (P) Ltd.,	Dumduma, Bhubaneswar	Red	HCU	Hospital	Beds-101
95.	Mannequin Pharmaceutical Pvt Ltd.,	Chandaka IE Bhubaneswar,	Red	Phama	Tablet, Liquid Medicine	Tablets-2,5799999 Nos/ Month and Liquid Medicines-248.0 Kl/ Month
96.	Sum Ultimate Medicare (Siksha O Anussandhan),	Ghatikia, Bhubaneswar,	Red	HCU	Multi- Specialty Hospital-	50 Nos.
97.	Kalinga Institute of Medical Science, (KIMS)	KIIT Campus Bhubaneswar,	Red	HCU	Multi- Specialty Hospital and Medical College	1000 Beds
98.	Quality Care India Ltd.,(Care Hospital),	C.S.Pur, Bhubaneswar	Red	HCU	Hospital	Beds-230
99.	Reliance Industries Limited,	B.P.Airport, Bhubaneswar	Red	POL Storge	Aviation Turbine Fuel	160 KL
100.	Reserve Bank of India,	Reserve Staff quarters, Baramunda, Bhubaneswar	Red	STP	Sewage Treatment Plant (STP)	100 KLD

101.	SGS India Pvt. Ltd.,	Mancheswar IE Bhubaneswar,	Red	Lab	Commercial Testing Laboratory	1000 Nos./ Month
102.	Shree Hospital (A unit of OMHTC Pvt. Ltd.),	Lewis Road, Bhubaneswar,	Red	HCU	Hospital	Beds-100
103.	Sparsh Hospital & Critical Care Pvt. Ltd.,	Saheed Nagar, Bhubaneswar,	Red	HCU	Hospital	Beds-100
104.	Sun Shine Hospital	Cuttack Road, Bhubaneswar	Red	HCU	Hospital	Beds-100
105.	Vivekanand Hospital Ltd.,	Baramunda, Bhubaneswar,	Red	HCU	Hospital	Beds-106
106.	Eastern Drug,	Mancheswar IE, Bhubaneswar	Red	Pharma	Liquid Oral and Capsules	3345 Litres/ Month 5 kg/ Month
107.	Hotel Swosti Premium (P) Ltd,	Jayadevvihar, Bhubaneswar	Red	Hotel	Hotel Unit	Rooms-106 nos
108.	Roots Corporation Ltd (Ginger Hotel),	Jayadev Vihar, Bhubaneswar	Red	Hotel	Hotel Unit	Rooms-161 nos
109.	May Fair Lagoon,	Jaydev Vihar, Bhubaneswar	Red	Hotels	Hotel Unit	Rooms-102 nos
110.	Hitech Medical College,	Pandra, Bhubaneswar,	Red	HCU	Medical College and Hospital	Beds-500

111.	Z Estates Pvt Ltd,	Kalarahanga, Bhubaneswar	Red	Housing Colony	Group Housing Projects	Construction of Multistoried Residential Housing Project 6 Blocks of (B+6+12), 12 Blocks of (B+6+14), 2 Blocks of (B+6+19), 1 Block of (B+6+24), 26 Blocks of (6+12) Villa, 1 No. (B+6+4), Villa, 1 No. of (B+6+1)Comm unity Building and 2 Nos. of G Floor Creche having ground coverage of 25,430.9 m2 with total built up area of 244092m2 over 26.184 Ac.
112.	Safari Retreats Pvt Ltd.,	Bomikhal Bhubaneswar,	Red	Housing Colony	Group Housing Projects	Shopping Mall and Multiplex (Commercial shops, multiplex, hotel, restaurant, mall, food court etc.)- Total Built-up Area = 88,341.60 Sq.m

113.	Vipul Greens,	Ransinghpur, Bhubaneswar,	Red	Housing Colony	Group Housing Projects	Multi Storied Residential Apartment of Three Blocks of B+G+18 storied each, One Block B+G+18 storied for LIG and EWS residential apartment Building and One Block of B+G+6 storied for Commercial Building -Total Built-up Area = 38,221.555 Sq.m
114.	Commercial Complex Projects	Gadakana, Bhubaneswar	Red	Housing Colony	Group Housing Projects	2B+G+5 Commercial Complex with facilities like shops, multiplex, restaurant, food court and offices- Total Built-up Area = 38399.1 Sq.m
115.	Kriday Reality Pvt. Ltd.,	Sankarpur, Bhubaneswar	Red	Housing Colony	Group Housing Projects	12 Towers of different heights with retail and club house - Total Built-up Area = 185176.33 Sq.m

116.	Central Govt Employees Welfare Housing Organisation Project,	Janla, Bhubaneswar	Red	Housing Colony	Group Housing Projects	Multi Storied Housing Project consists of 31 Blocks of S+4 and Block of G+1 having 496 dwelling Units-Total Built-up Area = 7,84,560 Sq. Ft.
117.	Shuvam Royale,	Vivekanandamarg, Bhubaneswar	Red	Housing Colony	Group Housing Projects	Multistoried Building with builtup area- 17712.81 sq.m
118.	Vipul Limited, Vipul Grden (Integrated Residential Complex),	Ghatikia, Bhubaneswar	Red	Housing Colony	Group Housing Projects	10 Towers of B+G+14 storied each having 578 apartments units
119.	Life Line Protein and Care Pvt. Ltd.,	Bhagabanbur Industrial Estate, Bhubaneswar	Red	Housing Colony	Group Housing Projects	Total Built up area- 57159.296 sq. mt

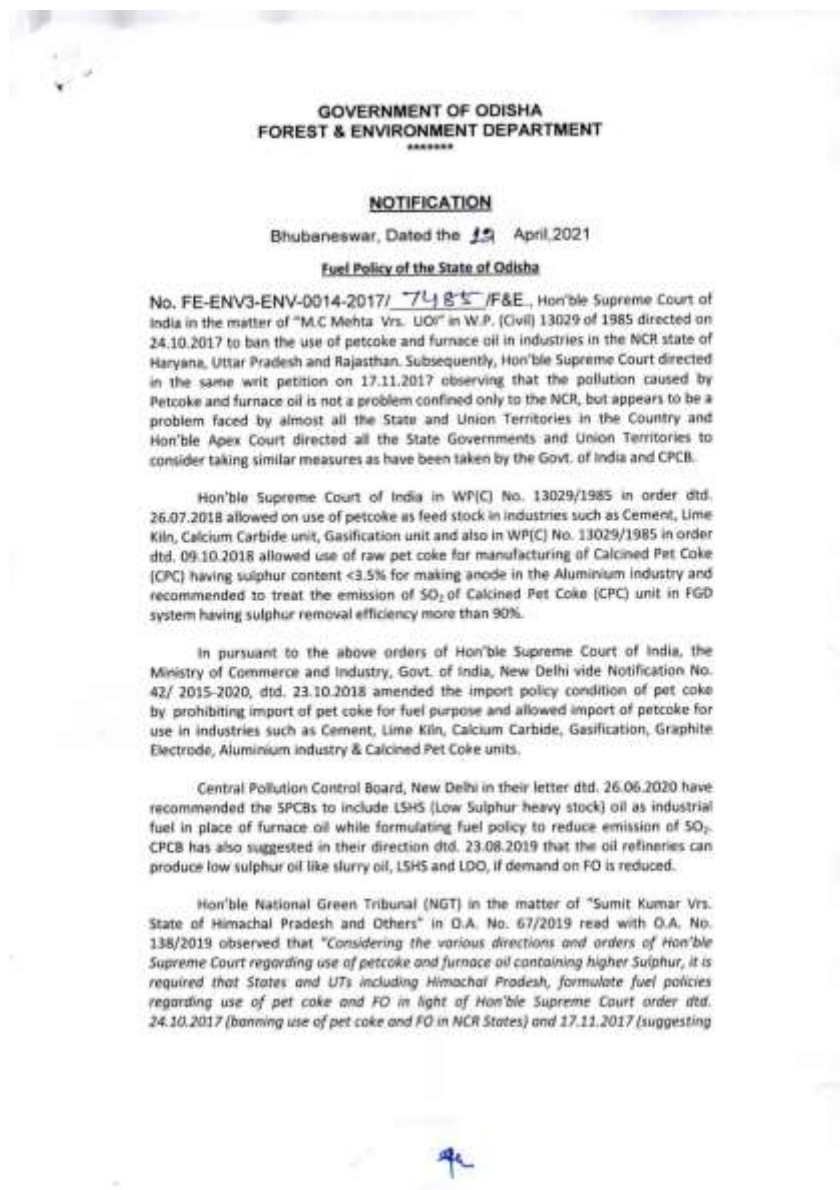
Action Point	Time Line	Agency
Action against non-complying polluting industries	On Going	SPCB, Odisha

Status of Action Taken against Red and Orange Industries in Air Shed Area of the Bhubaneswar City

Sl No	Unit_Name	Location/ District	Category (R/O)	Type of Non compliance	Action taken
1	Anand Industrial Gases	Mancheswar IE	Red	Invalid Consent	SCN Issued
2	Saphire Plaza	Cuttack Road	Orange	STP Non functional	SCN Issued

CLEAN FUEL IN INDUSTRIES

Action Point	Time Line	Agency
Action Point- 4.4 Establish a protocol for using cleaner fuels & technology in industries	On-Going	SPCB, Odisha



States / UTs to take similar measures) and further Hon'ble Supreme Court order dtd. 13.12.2017, 05.02.2018 and 26.07.2018 allowing use of pet coke in industries / processes which use pet coke and furnace oil either as feed stock (Calcined pet coke (CPC) units, Aluminium industries) or where they get absorbed along with product in manufacturing process (cement, lime kiln, calcium carbide industries). It is relevant to mention that use of Raw Petroleum Coke (RPC) in CPC units has been allowed with condition of 90% recovery of SO₂ emission. The same principle may be followed in industrial processes where use of FO as feed stock is considered by States/ UTs" and also issued direction to CPCB to ensure compliance from the States/ UTs.

The Government of Odisha vide Notification No. 22737, dtd. 07.11.2017 in F & E Dept, has allowed the use of Petcoke as an "Approved fuel" as per the provision of Air (Prevention & Control of Pollution) Act, 1981, subject to condition that the industry / processes interested to use pet coke as fuel shall obtain prior consent of SPCB, Odisha and install required air pollution control system to achieve the emission standards as prescribed from time to time and comply with the conditions stipulated by the competent authorities. Memo of this notification was forwarded to MoEF & CC and CPCB, New Delhi.

Keeping in view of the directions of Hon'ble Supreme Court of India and order of Hon'ble National Green Tribunal emphasizing on switching over to alternative and cleaner fuels, the following policy is framed for regulation and control use of Petcoke, Furnace Oil and use of other fuels in the State of Odisha.

The following fuel will be allowed for use in the State of Odisha.

- a. Liquefied Petroleum Gas (LPG)
- b. Liquefied Natural Gas (LNG)
- c. Piped Natural Gas (PNG)
- d. High Speed Diesel (HSD)
- e. Bio Gas
- f. Bio-Fuel (Bio-Ethanol etc.)
- g. Refuse Derived Fuel (RDF): To be used in Cement Kiln and Waste to Energy Plant or any other unit allowed by the Central Government/ State Government.
- h. Biomass as fuel (like Bagasse, Briquettes/ Pellets etc.)/ Agriculture refuse/ dung cake).
- i. Low Sulphur Heavy Stock (LSHS)

- j. Light Diesel Oil (LDO)
- k. Coal/Lignite
- l. Firewood/wood charcoal
- m. Naptha / Propane / Gasoline / Hydrogen / Methane

n) Pet Coke:

- Use of Petcoke is allowed as feedstock in industries/ processes where SO₂ gets absorbed such as Cement, Lime/ Dolo Kiln, Calcined Pet Coke (CPC), Aluminium Smelter, Gasification, Calcium Carbide & Graphite Electrode subject to obtaining specific consent to establish/ operate from State Pollution Control Board, Odisha under the provision of Air (Prevention and Control of Pollution) Act, 1981.
- The above-mentioned industries will be required to install all the requisite air pollution control systems so as to achieve the emission standards for Particulate Matter (PM) & SO₂ concentration and provide minimum stack height as prescribed in Environment (Protection) Act, 1986 and the Rules framed there under as amended from time to time.
- All the above-mentioned units using pet coke shall install online continuous emission monitoring system for parameters of PM & SO₂ with connectivity to the server of the SPCB for transmission of real-time online data within a period of 6 months.
- Raw pet coke having Sulphur content less than 3.5% shall be allowed for use in CPC units with condition of more than 90% recovery of SO₂ emission through flue gas desulphurisation system.
- Use of Calcined pet coke is allowed as feed stock or in manufacturing process in the industries as mentioned above and shall not be supplied to any other industry.
- Any other unit other than the above intend to use petcoke as feedstock or in manufacturing processes, where sulphur will be absorbed in the process will have to obtain prior permission from State Pollution Control Board on case-to-case basis.
- No other industry / processes shall be allowed to use petcoke as fuel.
- Considering the requirement of grinding, sizing, and briquetting of pet coke before using in the approved industries as mentioned in this policy, the existing pet coke grinding, sizing and briquetting units are allowed to use raw pet coke and they shall not supply the processed raw pet coke to the industries not covered in this policy and maintain a record for verification of SPCB. Establishment of standalone new pet coke grinding, sizing & briquetting units shall not be allowed.

o) Furnace Oil

- Industries using furnace oil shall install scrubbing system for more than 90% recovery of SO₂ emission and provide stack height as per the following formula within **6 months**.
- $H = 14(Q)^{0.3}$ (Where, H is the physical stack height & Q is emission rate of SO₂ in Kg/hr).
- All the industries using furnace oil shall shift to use of cleaner fuel with low Sulphur content such as Low Sulphur Heavy Stock (LSHS)/ Light Diesel Oil (LDO) / Gas, replacing furnace oil within a period of **Two years**.

The new industries coming up in the State which is either under construction or in upcoming stage shall abide by the conditions of State fuel policy.

The State fuel policy shall be subject to the compliance of orders and direction of Hon'ble Supreme Court of India/ High Court/ NGT and guidelines issued by Central Govt./CPCB/ State Govt. and can be amended with the approval of State Government.

By the order of Governor



Addl. Chief Secretary to Govt.

Memo No. 7486 /dtd. 12.04.21

Copy forwarded to the Director, Printing Stationery & Publication, Odisha, Madhupatna, Cuttack for information and necessary action. He is requested to publish the Notification bearing S.R.O No. and date in the Extra Ordinary issue of the Odisha Gazette and provide 100 copies of the same to this Department.

 12/04/21
Director, Env-cum-Special Secretary to Govt.

Memo No. 7487 /dtd. 12.04.21

Copy to Secretary, MoEF & CC, Indira Paryavaran Bhawan, 3rd Floor, Vayu Wing, JorBagh Road, New Delhi-11003 for information.

 12/04/21
Director, Env-cum-Special Secretary to Govt.

Memo No. 7488 /dtd. 12.04.21

Copy to the Principal Secretary, Department of Industries, Kharvela Bhawan, Govt. of Odisha for information.

 12/04/21
Director, Env-cum-Special Secretary to Govt.

Memo No. 7489 /dtd. 12.04.21

Copy to Member Secretary, Central Pollution Control Board, Paribesh Bhawan, East Arjun Nagar, New Delhi -110032 for information.

 12/04/21
Director, Env-cum-Special Secretary to Govt.

Memo No. 7490 /dtd. 12.04.21

Copy to Member Secretary, SPC Board, Odisha, Bhubaneswar A/118, Nila Kantha Nagar, Unit-8, Bhubaneswar -751012 for information.

 12/04/21
Director, Env-cum-Special Secretary to Govt.

Annex IP-5:**CONTROL OF AIR POLLUTION FROM BRICK KILNS**

Action Point	Time Line	Agency
Action Point- 6.9: Identification of brick kilns and their regular monitoring including use of designated fuel and closure of unauthorized units.	On Going	SPCB, Odisha

Status of Brick Kiln Units in Bhubaneswar City

Sl. No	Name and Address of the Unit	District	Status of CTO	Action Taken/Present Status
1.	Diamond Bricks Pvt. Ltd., Plot No. 02, Chandaka Industrial Estate, Po- Kalaranga, Bhubaneswar, Dist.- Khordha	Khordha	Closed	Closed
2.	Dipti Bricks, At/Po- Mancheswar, Dist.- Khordha	Khordha	Closed	Closed
3.	Jena Bricks, At- Gadakan, Po- Mancheswar, Bhubaneswar, Dist.- Khordha	Khordha	Closed	Closed
4.	Sahid Enterprises, (Brick Kiln), At/Po- Mancheswar, Bhubaneswar, Dist.- Khordha	Khordha	Closed	Closed
5.	Sahoo Bricks, AT- Hanspal, Po- Naharakanta, PS- Mancheswar, Dist- Khordha	Khordha	Closed	Closed
6.	Kalinga Bricks At / Po- Mancheswar Bhubaneswar, Dist- Khordha	Khordha	Closed	Closed
7.	Suraj Bricks, At- Rokot, Mancheswar, Dist- Khordha	Khordha		Direction of Closure Issue and operational closed
8.	A.R. Sons Brick, At- Pandra, Po- Rasulgarh, Bhubaneswar, Dist- Khordha	Khordha	Direction of Closure Issued	Presently Closed
9.	Gouri Bricks, At- Bomikhal, Po- Rasulgarh, Dist- Khordha	Khordha	Direction of Closure Issued	Presently Closed
10.	Puspa Bricks, At/Po- Mancheswar, Dist.- Khordha	Khordha	Direction of Closure Issued	Presently Closed

11.	Thakur Das Mulchandbatra, At-Pandra, Po- Rasulgarg Chhak, Dist- Khordha	Khordha		Closed & Dismantled
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Annex IP-11

CONTROL OF AIR POLLUTION FROM BRICK KILNS

Action Point	Time Line	Agency
Acvtion Point-11.1: Allow only DG sets meeting emission and design of chimney/ exhaust, acoustic enclosures standards to operate	On Going	SPCB, Odisha

List of Industries / Units using DG Set under Jurisdiction of Regional Office, Bhubaneswar

Sl. No	Name and Address of the Unit	Capacity of DG Set
1.	Ms. Shree Vineeths, At-109, Kharvel Nagar, Bhubaneswar, Dist- Khordha	DG Set- 125 KVA
2.	Hotel Prangan, 692, Cuttack Road, Bhubaneswar, Dist- Khordha	DG Set- 200 KVA
3.	Hotel Deepali International, 54, Budhanagar, Bhubaneswar, Dist- Khordha	DG Set- 63.3 KVA
4.	Hotel Pal Regency(p) Ltd, J/7, Jayadev Vihar, BBSR, Dist- Khurda	DG Set- 500 KVA
5.	LA Franklin Hotel (A unit of Laxmi franklin Hospitality Pvt. Ltd), At- 328/1110, Rasulgargh, Bhubaneswar, Dist- Khordha	DG Set- 400 KVA
6.	Sandy Resort(P) Ltd, Jayadev Vihar, BBSR, Dist- Khordha	DG Set- 750 KVA , 160 KVA & 82.03 KVA (03 NOS.)
7.	Roots Corporation Ltd (Ginger Hotel), Jayadev Vihar, Bhubaneswar, Dist- Khurda	DG Set- 250 KVA , 200 KVA & 100 KVA (03 nos.)
8.	Hotel Priya, A-B-1, Unit-3, Kharvel nagar, Bhubaneswar, Dist- Khordha	DG Set- 30 KVA
9.	Hotel 7 Miles, Plot No- F/19 & F/ 24, Chandaka Industrial Estate, Bhubaneswar, Dist- Khordha	DG Set- 125 KVA
10.	Bhubaneswar Hotel, Cuttack Road, Bhubaneswar, Dist- Khurda	DG Set- 25 KVA
11.	Hotel Grand Central, Old Station Bazar, Bhubaneswar, Dist- Khordha	DG Set- 89 KVA
12.	Hotel Arya Palace, 126/13, Janapath, Ashok Nagar, Bhubaneswar, Dist- Khordha	DG Set- 40 KVA

13.	VITS Hotel, A/19, Cuttack Road, Near Jatri Nivas, Laxmisagar, BBSR, Dist- Khurda	DG Set- 350 KVA & 500 KVA(02 nos.)
14.	Hotel Urmee (A unit of Chakadola Estates (P) Ltd),424, Rasulgarh, Bhubaneswar, Dist- Khordha	DG Set- 63 KVA
15.	Hotel Swosti Premium (p) Ltd, P-1, Jayadev vihar, Bbsr-13, Dist- Khurda	DG Set- 500 KVA
16.	Hotel Swosti Grand, 103, Janpath,Bbsr-01, Dist- Khurda	DG Set- 150 KVA
17.	Hotel Venus Inn, Plot No-217, Bapujinagar, Bhubaneswar, Dist-Khordha	DG Set- 45 KVA
18.	Hotel Blue Wheel, At- saheed nagar, Bhubaneswar, Dist-Khordha	DG Set- 82 KVA
19.	Pantha Nivas, Bhubaneswar, Lewis Road, Bhubaneswar, Dist- Khordha	DG Set- 200 KVA
20.	Mayfair Convention (Hotel Unit), Plot No- 282(p), Jayadev Vihar, Bbsr-013, Dist- Khurda	DG Set- 320 KVA & 500 KVA
21.	Hotel Sukhamaya(P) Ltd, IRC Village, Nayapalli, BBSR, Dist- Khurda	DG Set- 500 KVA
22.	Royal Hotels(P) Ltd, Janpath, Bhubaneswar, Dist- Khurda	DG Set- 144 KVA
23.	Pabitra Royal Regency Pvt. Ltd, At- Patia, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
24.	Hotel Sambit Royale, 25, Ashok nagar, Bhubaneswar, Dist-Khordha	DG Set- 30 KVA
25.	Hotel Sambit Palace, Ashok nagar, Bhubaneswar, Dist-Khordha	DG Set- 30 KVA
26.	Hotel Gokul Plaza, Plot No-969/1510(B), Ashok Nagar, Bhubaneswar, Dist- Khordha	DG Set- 120 KVA
27.	May Fair Lagoon, 8B, Jaydev Vihar, Bhubaneswar, Dist- Khordha	DG Set- 100 KVA & 500 KVA
28.	Hotel Seetal, A-15/1, Bhoinagar, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
29.	Hotel Excellency Resorts (P) Ltd, Plot No- 74/977, Ashok Nagar, Bhubaneswar, Dist- Khordha	DG Set- 85 KVA
30.	Hotel Green Field, Pandra, Rasulgarh, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
31.	Lalchand Resorts (P) Ltd, (Hotel New Marion), Plot No-6, Janapath, Bhubaneswar, Dist-Khordha	DG Set- 63 KVA
32.	Sutrupti Hotel , 6, Unit - IV (Chhaya Complex), Bhubaneswar, Dist- Khordha	DG Set- 63 KVA
33.	The Presidency Hotel, Nayapalli, BBSR, Dist- Khurda	DG Set- 160 KVA

34.	Hotel Hindustan International, A-1/2, Janpath Kharvel Nagar, Bhubaneswar, Dist- Khordha	DG Set- 500 KVA & 320 KVA
35.	Hotel Siddarth, Nayapalli, Bhubaneswar, Dist- Khordha	DG Set- 63 KVA
36.	Beyond Projects Pvt. Ltd, At- 328/P, Mancheswar I.E, Bhubaneswar, Dist- Khordha	DG Set- 200 KVA
37.	Best Inn Hotels Resort, At- N-5/539, IRC Village, Nayapalli, Bhubaneswar, Dist- Khordha	DG Set- 65 KVA
38.	Hotel Rashmi Plaza, Jayadev Vihar, Bhubaneswar, Dist- Khordha	DG Set- 750 KVA
39.	Hotel Kharavela, Jagamara, Khandagiri, Dist- Khordha	DG Set- 650 KVA
40.	Hotel Richi,122/A, Unit-III, Kharvel nagar, Bhubaneswar, Dist- Khordha	DG Set- 40 KVA
41.	Stone Palace(Hotel & Restuarant), B/23, Chandaka I/E, Patia, Bhubaneswar, Dist- Khordha	DG Set- 120 KVA
42.	Hotel Suraj Palace, Plot No-100, chandaka I/e, Bhubaneswar, Dist- Khordha	DG Set- 40 KVA
43.	Hotel Rajmahal, At- Rajmahal Square, Bhubaneswar, Dist-Khordha	DG Set- 65 KVA
44.	Holiday Home Cum Guest House, AT- 977/1418, Jhujhunwal Garden, Ashok Nagar, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
45.	Corporate Habitat, At- Plot No- 516/1755, 2 nd Floor, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
46.	Hotel Pelican,221, Bapuji Nagar, Bhubaneshwar, Dist- Khordha	DG Set- 125 KVA
47.	Miland palace Hotel, 540, Cuttack Road, Bhubaneswar, Dist- Khordha	DG Set- 50 KVA
48.	Hotel Prangan,692, Cuttack Road, Bhubaneswar, Dist- Khordha	DG Set- 200 KVA
49.	Hotel Swapnapuri, At-saheed nagar, Bhubaneswar, Dist-Khordha	DG Set- 5 KVA
50.	Hotel Nirmal Inn,At- Ashoknagar, Bhubaneswar, Dist-Khordha	DG Set- 64 KVA
51.	L.V. Prasad Eye Institute, At- Patia, Po- KIIT, Bhubaneswar, Dist- Khordha	DG Set- 160 KVA , 285 KVA, 320 KVA
52.	Bharti Airtel Ltd, At- Chandaka Industrial Estate, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
53.	Dishnet Wireless Ltd, At- Fortune Tower, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
54.	Dishnet Wireless Ltd, At- Goutam Nagar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA

55.	Bharti Airtel Ltd, At- E/131,Chandaka Industrial Estate, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
56.	Tata Teleservices Ltd, AT- C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
57.	Tata Teleservices Ltd, B & C, 3 rd Floor, Fortune Tower, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
58.	Bharti Infra Tel Ltd., At- 502 & 503, Fotune Tower, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (28 nos.)
59.	Idea Cellular Infra Structure Ltd, 437, Patia, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
60.	WIPRO Ltd., AT- E/8, Infocity, Bhubaneswar, Dist- Khordha	DG Set- 750 KVA
61.	ATC Idea Corporation Pvt. Ltd.,At- G-5 , Goutam Nagar Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (02 nos.)
62.	Idea Cellular Infrastructure Services Ltd., At- 437/1859, Patia, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
63.	Vodafone Essar Spacetel Ltd., AT-Module- A,2 nd Floor, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (04 NOS.) & 750 KVA (03 NOS.)
64.	ATC India Tarade Corporation (P) Ltd., At- G-5 , Ganaganagar, Bhubaneswar, Dist- Khordha	DG Set- 240 KVA & 250 KVA (02 NOS.)
65.	VIOM Networks, At- C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 240 KVA & 250 KVA (02 NOS.)
66.	VIOM Networks, At- Fortune Tower, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 20/25/30/40 KVA (04 NOS.)
67.	VIOM Networks, At- 4 TH Floor, Module-C, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (63 NOS.)
68.	VIOM Networks, At- 4 TH Floor, Module-C, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (60 NOS.)
69.	VIOM Networks, At- 4 TH Floor, Module-C, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (16 NOS.)
70.	VIOM Networks, At- Fortune Tower, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (11 NOS.)
71.	VIOM Networks, At- Fortune Tower, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (27 NOS.)
72.	VIOM Networks, At- 5 th Floor, Fortune Tower, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (57 NOS.)
73.	Tata Teleservices Ltd, AT- 3 rd Floor, Fortune Tower, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA

74.	Tata Teleservices Ltd, AT- Chadanka Industrial Estate, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
75.	Institute of Life Science, AT- Nalco Square, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
76.	Idea Cellular Infra Structure Ltd, Sailashree Vihar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
77.	Idea Cellular Infra Structure Ltd, Naharakanta, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
78.	Idea Cellular Infra Structure Ltd, Satya Nagar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
79.	Idea Cellular Infra Structure Ltd, Satyanagar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
80.	Idea Cellular Infra Structure Ltd, Nageswartangi, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
81.	Idea Cellular Infra Structure Ltd, Jaydev Vihar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
82.	Idea Cellular Infra Structure Ltd, Khandagiri Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
83.	Idea Cellular Infra Structure Ltd, Rasulgarh, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
84.	Idea Cellular Infra Structure Ltd, Sahid Nagar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
85.	Reliance Jio Pvt. Ltd. At- 109, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
86.	Idea Cellular Infra Structure Ltd, 387, Lewis Road, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
87.	Idea Cellular Infra Structure Ltd, Acharya Vihar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
88.	Idea Cellular Infra Structure Ltd, IRC Village, Nayapalli, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
89.	Idea Cellular Infra Structure Ltd, Chintamaniswara, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
90.	Idea Cellular Infra Structure Ltd, Madhusundan Nagar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
91.	Idea Cellular Infra Structure Ltd, Dumduma, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
92.	Idea Cellular Infra Structure Ltd, Lewis Road, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
93.	Idea Cellular Infra Structure Ltd, 437, Patia, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA

94.	Idea Cellular Infra Structure Ltd, Balianata, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
95.	Idea Cellular Infra Structure Ltd, Gadakana, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
96.	Idea Cellular Infra Structure Ltd, Naharakanta, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA
97.	Reerve Bank of India, At- Jawaharh Nehru Marg, Bhubaneswar, Dist- Khordha	DG Set- 125 KVA
98.	CITI Bank, At- Kharvel Nagar, Bhubaneswar, Dist- Khordha	DG Set- 200 KVA
99.	National Informatics Centre (NIC), At- Unit-4, Sachivalaya Marg, Bhubaneswar, Dist- Khordha	DG Set- 2250 KTVA (03 NOS.)
100.	MPHASIS Ltd., At- At-130, Mancheswar Industrial Estate, Bhubaneswar, Dist- Khordha	DG Set- 240 KVA & 250 KVA (02 NOS.)
101.	Unitech Wireless (East) Pvt. Ltd., At- Unit- 9, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA , 250 KVA & 3800 KVA(03 nos.)
102.	Essar Telecom Infrastructure (P) Ltd., At- Plot No- G-5, Ganganagar, Bhubaneswar, Dist- Khordha	DG Set- 25 KVA
103.	Essar Telecom Infrastructure (P) Ltd., At- Plot No- G-5, Ganganagar, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (50 nos.)
104.	Idea Cellular Infra Structure Ltd, 760, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
105.	Idea Cellular Infra Structure Ltd, 360, Bhubaneswar, Dist- Khordha	DG Set- 250 KVA
106.	Bharti Airtel Ltd, At- C/653, Epari Plaza, Janpath, Kharvel Nagar, Bhubaneswar, Dist- Khordha	DG Set- 400 KVA & 320 KVA (02 NOS.)
107.	Mega Sales & Service, At- 1536/4, Bhimpur, Bhubaneswar, Dist- Khordha	DG Set- 40 KVA
108.	Reliance Jio Infocom Pvt. Ltd. At- 109, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 320 KVA
109.	Reliance Jio Infocom Pvt. Ltd. At- 109, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 25 KVA
110.	Nexgen Renaissance (P) Ltd., At- District Centre, C.S Pur, Bhubaneswar, Dist- Khordha	DG Set- 125 KVA
111.	S- Steel Pvt Ltd., At- Rudrapur, Naharakanta, Bhubaneswar, Dist- Khordha	DG Set- 1000 KVA
112.	GTL Infrastructure Ltd., At- At/Po- Madanpur, Janla, Bhubaneswar, Dist- Khordha	DG Set- 20 KVA
113.	Bharti Infra Tel Ltd., At- 502 & 503, Fotune Tower, Bhubaneswar, Dist- Khordha	DG Set- 15 KVA (50 nos.)

Annex BB-1:

CONTROL OF AIR POLLUTION FROM BIOMASS BURNING

Action Point	Time Line	Agency
Action Point-BB-1.4,: -Prohibition/ complete ban on garbage burning. BB-1.5Launch extensive drive against open burning of bio-mass, crop residue, garbage, leaves, etc	6 Months (Aug-2-019)	SPCB, Odisha, H & UD Govt. Ofisha



PUBLIC NOTICE

**ATTENTION: ALL SOLID WASTE GENERATORS, URBAN LOCAL AUTHORITIES,
VILLAGE PANCHAYATS OF CENSUS TOWNS AND URBAN AGGLOMERATIONS
AND GENERAL PUBLIC**

This is to bring to the notice of all concerned including general public that Hon'ble National Green Tribunal, Principal Bench, New Delhi in their order dt. 22.12.2016 in the matter of OA, NO. 199 of 2014, Almitra H. Patel Vs. Union of India & Others issued comprehensive direction for effective implementation of Solid Waste Management Rules, 2016 by all concerned and further specifically directed for complete prohibition on open burning of waste on lands, including of landfill sites. For each such incident or default, violators shall be liable to pay environmental compensation of Rs. 5, 000/- (Rs. Five Thousand only) in case of simple burning, while Rs. 25, 000/- (Rs. Twenty Five Thousand only) in case of bulk waste burning. Environmental compensation shall be recovered as arrears of land revenue by the competent authority in accordance with law. The detailed of the judgment of Hon'ble NGT dt. 22.12.2016 is available at State Pollution Control Board website www.spcboard.org

All concerned are hereby requested to comply with the direction of Hon'ble NGT in all respect.


MEMBER SECRETARY

Contd. P/02

Memo no. _____/ Dt. _____/

Copy forwarded to the Commissioner-cum-Secretary, H & U D Department/
Panchayatraj Department, Government of Odisha for favour of information.

MEMBER SECRETARY

Memo no. _____/ Dt. _____/

Copy forwarded to all Collectors & District Magistrates for information.

MEMBER SECRETARY

Memo No. _____/ Dt. _____/

Copy forwarded to Director, Municipal Administration, H & UD
Department/ Director, Panchayatraj Department, for information & with a
request to sensitize the Local Authorities to comply with the provisions of the
Rule.

MEMBER SECRETARY

Memo No. _____/ Dt. _____/

Copy forwarded to Administrative Officer, State Pollution Control Board,
Odisha, with a request to publish the above notice in English & Odiya (one
English & two Odia dailies as per circulation) dailies on or before 09.02.2017.

MEMBER SECRETARY

Memo No. _____/ Dt. _____/

Copy forwarded to Regional officer, State Pollution Control Board, Angul
/ Berhampur / Bhubaneswar / Balasore / Cuttack / Jharsuguda / Kalinganagar /
Keonjhar / Paradeep / Rayagada / Rourekla / Sambalpur for information and
necessary action.

MEMBER SECRETARY

Memo No. 1906 / Dt. 08-02-17

Copy forwarded to the System Analyst, State Pollution Control Board,
Odisha, for information. She is requested to put the notice in the website of the
Board immediately.

MEMBER SECRETARY



ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ଼, ଓଡ଼ିଶା

ପରିବେଶ ଭବନ, ଏ/୧୧୮, ନାଳକଣ୍ଠ ନଗର, ଯୁନିଟ୍ -୮, ଭୁବନେଶ୍ୱର- ୭୫୧ ୦୧୨

ଇ-ମେଲ୍ -paribesh1@ospcboard.org/ ୱେବସାଇଟ୍ -www.ospcboard.org

NO: 1899 JNB-IV-SW-146 DT: 08.02.2017

ବିଜ୍ଞପ୍ତି

ଏହି ବିଜ୍ଞପ୍ତି ମାଧ୍ୟମରେ କଠିନ ବର୍ଜ୍ୟବସ୍ତୁ ଉତ୍ପନ୍ନ କରୁଥିବା ରାଜ୍ୟର ସମସ୍ତ ପୌର ଓ ପଞ୍ଚାୟତ କର୍ତ୍ତୃପକ୍ଷ ତଥା ଜନସାଧାରଣଙ୍କ ଗୋଚରାର୍ଥେ ଜଣାଇ ଦିଆଯାଉଛି ଯେ ମାନ୍ୟତା ଜାତୀୟ ସବୁଜ ଟ୍ରିବ୍ୟୁନାଲ୍ ନୂଆଦିଲ୍ଲୀ କଠିନ ବର୍ଜ୍ୟବସ୍ତୁର ସଠିକ୍ ପରିଚାଳନା ପାଇଁ ଗତ ୨୨ ଡିସେମ୍ବର ୨୦୧୬ରେ ବିସ୍ତୃତ ଆଦେଶ ପ୍ରଦାନ କରିଅଛନ୍ତି । ଉପରୋକ୍ତ ଆଦେଶର ସମ୍ପୂର୍ଣ୍ଣ ବିବରଣୀ ରାଜ୍ୟ ପ୍ରଦୂଷଣ ନିୟନ୍ତ୍ରଣ ବୋର୍ଡ଼, ଓଡ଼ିଶାର ୱେବସାଇଟ୍ www.ospcboard.org ରେ ଉପଲବ୍ଧ ଅଛି । ଇଚ୍ଛୁକ ବ୍ୟକ୍ତିବିଶେଷ ଉକ୍ତ ୱେବସାଇଟ୍‌ରୁ ମାନ୍ୟତା ଜାତୀୟ ସବୁଜ ଟ୍ରିବ୍ୟୁନାଲ୍ କଠିନ ବର୍ଜ୍ୟବସ୍ତୁ ପରିଚାଳନା ସମନ୍ଧାୟ ଦେଇଥିବା ଆଦେଶକୁ ଦେଖିପାରିବେ ।

ପୁନଶ୍ଚ ମାନ୍ୟତା ଟ୍ରିବ୍ୟୁନାଲ୍‌ଙ୍କ ଦ୍ୱାରା ଦିଆଯାଇଥିବା ଉକ୍ତ ଆଦେଶରେ ନିର୍ଦ୍ଦିଷ୍ଟ ଭାବରେ କୌଣସି ବର୍ଜ୍ୟବସ୍ତୁକୁ ଖୋଲା ସ୍ଥାନ ତଥା ଆବର୍ଜନା ପକାଯାଉଥିବା ସ୍ଥାନରେ ଜଳାଇବା ପାଇଁ ସମ୍ପୂର୍ଣ୍ଣ ନିଷେଧ କରାଯାଇଛି । ଏହାର ଖୁଲାପ ଦୃଷ୍ଟିଗୋଚର ହେଲେ ଖୁଲାପକାରୀଙ୍କ ଠାରୁ ପରିବେଶାୟ କ୍ଷତିପୂରଣ ବାବଦରେ ଜୋରିମାନା ସରୁପ ସାଧାରଣ ଜଳାଇବା ପାଇଁ ଟ. ୫,୦୦୦/- (ପାଞ୍ଚ ହଜାର ଟଙ୍କା) ଓ ସମୂହ ଆବର୍ଜନା ଜଳାଇଲେ ଟ. ୨୫,୦୦୦/- (ପଚିଶ ହଜାର ଟଙ୍କା) ରୁ-ରାଜସ୍ୱ ଆକାରରେ ଆଇନ ଅନୁଯାୟୀ ଆଦାୟ କରାଯିବ ।

ଉପରୋକ୍ତ ବିଷୟରେ ମାନ୍ୟତା ଜାତୀୟ ସବୁଜ ଟ୍ରିବ୍ୟୁନାଲ୍ ଦେଇଥିବା ଆଦେଶକୁ ସମ୍ପୂର୍ଣ୍ଣ ରୂପେ ପାଳନ ପାଇଁ ସମ୍ପୂର୍ଣ୍ଣ ଥିବା ସମସ୍ତ ପକ୍ଷକୁ ଅନୁରୋଧ କରାଯାଉଛି ।

ବିଜ୍ଞପ୍ତିର ମୁଦ୍ରିତ ସ୍ୱାକ୍ଷର
ସତ୍ୟ ସଚିବ



Tel -0674-2392104/2390147
e-mail : sanitationhud@gmail.com
Website: www.urbanodisha.gov.in

Government of Odisha
Housing & Urban Development Department

3rd floor, Kharavel Bhavan, Unit-V, Bhubaneswar, PIN:751001

File No.: HUD-SANT-POLICY-0001-2021 Letter No.: 550 /HUD.Date: 11/01/2021

From

Kalyan Kumar Rath, OAS (SAG)
Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

To

The Commissioners of the Municipal Corporations,
(BMC,BeMC,CMC,RMC & SMC)

The Executive Officers
All Municipalities and NACs

Sub: Ensuring waste collected as tree-leaves etc. not to be burnt


Madam/Sir,

I am directed to invite a reference to the provisions contained under sub-rule (2) of rule.4 read with clause.(k) of rule-15-of the Solid Waste Management Rules, 2016 and to intimate that all concerned may please be directed to ensure that tree-leaves etc. collected from street sweeping are stored separately and handed over to the waste collecting agencies authorised by the ULBs and the said tree-leaves are not burnt.

The waste generators may also be impressed upon through IEC Activities/through Swachha Sathi and Supervisors not to throw, burn or bury the solid waste generated by them on streets, open public space outside their premises or in the drain or water bodies.

This may please be ensured for compliance.

Yours faithfully,


11.01.2021.

Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

(3+1)

Memo No. 501 /HUD

Date 11/01/2021

Copy forwarded to the Project Director, District Urban Development Agency for information and necessary action.

rls

11.01.2021

Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

Memo No. 502 /HUD

Date 11/01/2021

Copy forwarded to Environment Expert, PMU, SBM (Urban) for information and necessary action.

Copy forwarded to Guard File(sanitationhudedespatch@gmail.com).

rls

11.01.2021

Additional Secretary to Government &
Additional Mission Director, SBM (Urban)

Annexure-BB-1

Action Point	Time Line	Agency
Action Point-BB-1.7 Regular collection and control of municipal solid wastes; BB-1.8: Providing Organic Waste Compost machines, decentralization of processing of Waste, dry waste collection centers.	6 Months (Aug-2-019)	Bhubaneswar Municipal Corporation

Steps taken by Bhubaneswar Municipal Corporation for Regular Collection and Control in implementation of Solid Waste Management Rule 2016 (Source: Annual Report submitted by BMC and report submitted by Regional Officer, SPC Board, Bhubaneswar)

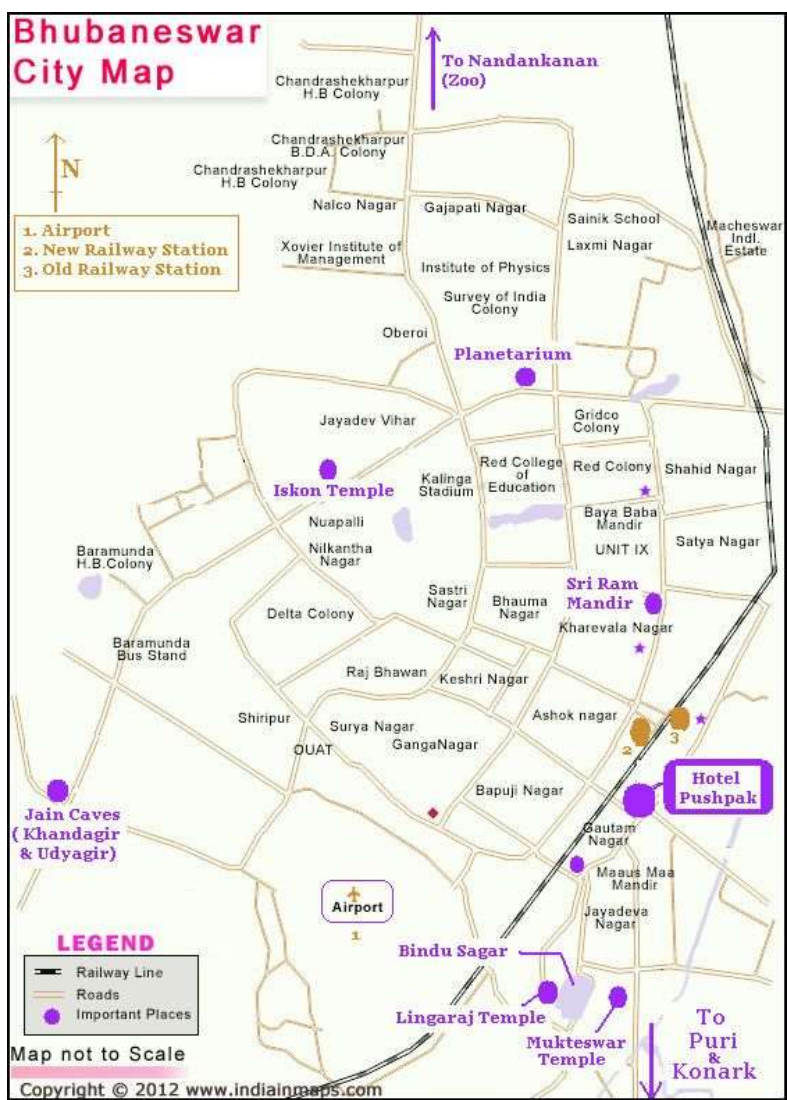
Bhubaneswar is the capital city of the Odisha. The modern city of Bhubaneswar was designed by the German architect Otto Konigsberger in 1946. The city, with an abundance of greenery.

Bhubaneswar Municipal Corporation has history of its inception in the year 1948 as a Notified Area Committee to a Municipality in the year 1979, then finally to a Corporation in the year 1994.

BMC has prepared a Detailed Project Report (DPR) for management of solid waste in the Corporation area with a total project cost of Rs.23.68 Crores and the DPR has been projected to Central Pollution Control Board for availing central assistance. BMC has is pursuing targets in its endeavor for improving the SWM system. BMC has privatized Sanitation /Cleaning service in respect of 57 wards out of 67 wards. Out of 67 wards in Bhubaneswar Municipal Corporation (BMC), 57 wards are grouped into four packages for the purpose of the solid waste management activities (municipal solid waste collection & transportation, conservancy cleaning, drain cleaning & de-silting). Three private agencies under Public Private Partnership (PPP) mode are carrying out the entire SWM (Solid Waste Management) activities in the privatized 57 wards (Table 25) on daily basis, which includes door-to- door garbage collection, street sweeping, MSW (Municipal Solid Waste) transportation, drain cleaning, drain de-silting, conservancy cleaning and bush cutting. In the remaining 10 wards, BMC is carrying out the SWM activities on daily basis. Tricycles are used for door-to-door garbage collection. Mixed wastes are collected from the HHs and transported to dumpsite. The staff involved in door-to-door waste collection are provided with vest, gloves and masks to protect from pollution. Approx. 520 tons of MSW is generated per day in Bhubaneswar.

[List of Privatised Wards](#) [Microsoft Word - Beat ListJagruti.doc \(bhubaneswarone.in\)](#)





Salient details of Bhubaneswar Municipal Corporation

Sl. No.	Particulars	Units	Status Report
1.	Population as per 2011 Census	Numbers	8,40,834
2.	Projected population for 2021	Numbers	-
3.	Area	Sq. Km	186
4.	Number of households as per 2011 census	Number	2,11,538
5.	Projected Number of households till 2021	Number	-
6.	Number of non-residential premises (Commercial, Hotels, Educational, Offices,	Number	4407

7.	Number of wards	Number	67 (:: Bhubaneswar Municipal Corporation (bmc.gov.in))
8.	Estimated quantity of solid waste (MSW) generated per day	Tons	520
9.	Quantity of solid waste collected per day	Tons	520
10.	Quantity of solid waste dumped per day	Tons	420
11.	Location of waste disposal site	-`	Bhuasuni
12.	Area of waste disposal site	Acs	61.485
13.	Area currently used for waste dumping	Hectare	
14.	Distance of waste processing site from city boundary	Km	10
15.	Quantity of solid waste processed per day	Tons	100T Processed to get 60T Compost
15.	Area of waste processing site	Acre	-
17.	Type of processing/ waste treatment	-	Organic composting (100 TPD Micro Composting Center (MCC) and 20 T Material Recovery Facility (MRF))
18.	Number of facilities for waste processing	Number	
19.	Segregation and storage of waste at source	-	Yes
20.	Percentage of premises practicing waste segregation at source	%	100
21.	Percentage of households practice storage of waste at source in domestic bins	%	100
22.	Door to door (D2D) collection of waste	%	100 for all households



E-mail: centrallab@ospboard.org
 Website : www.ospboard.org

CENTRAL LABORATORY
 STATE POLLUTION CONTROL BOARD, ODISHA
 [DEPARTMENT OF FOREST & ENVIRONMENT, GOVERNMENT OF ODISHA]
 Plot No. B-59/2 & 59/3, Chandaka Industrial Estate, Patia,
 Bhubaneswar - 751 024
VI-SC (LEM) Proj-167, 2018-19

Report No. AR/07/March/2019
 Dated 30.03.2019

Name & Address of the Industry / Source : Ambient Air Quality monitoring near Bhuasuni dumping yard of Bhubaneswar Municipality

Sample Monitored & Submitted by : Er.N. Behera, EE, RO, SPCB Bhubaneswar, Sri B.N.Senapati, JSA Central Laboratory, SPCB, Bhubaneswar

Sample Submitted on : 26.03.2019

ANALYSIS REPORT OF AMBIENT AIR

Sl. no	Location of Sampling points	PM ₁₀ (µg/m ³)
Ambient Air Samples		
1	Ambient Air Quality monitoring in downwind direction near Bhuasuni dumping yard (North-West direction)	307.0
2	Ambient Air Quality monitoring in upwind direction near Bhuasuni dumping yard (South-East direction)	194.0
24 Hourly Avg. Standard		100

EE 30/3/19

ES 30-3-19

Mohal 30/3/19

Chief Env. Scientist

Head Office: State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakanthanagar, Unit-VIII, Bhubaneswar - 751 012, FAX : 2562822/2560955 TEL : 2564033/2563294 EPABX : 2561909/2562847
 E-mail : paribesh1@ospboard.org Website : www.ospboard.org

Action Point	Time Line	Agency
Action Point-BB-11 Fire crackers—regulate to control their usage	Regular Activity	SRC, GoO/ Home Deptt. GoO



Government of Odisha
Office of Special Relief Commissioner

No. 6218 /R&DM(DM) Date: 03-11-2020
RDM-RLF-MISC-0290-2020

ORDER

Whereas, the State is passing through a critical stage of COVID-19 pandemic;

And whereas, the winter season is approaching during which the elderly, children, persons with co-morbidities and others develop respiratory problems;

And whereas, the Deepavali and Kartika Purnima festivals are approaching and people usually burn fire crackers during such occasions;

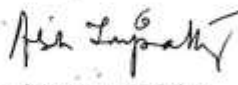
And whereas, it is a well-known fact that burning of the fire crackers releases copious amounts of harmful chemicals, which have severe impact on the respiratory health of vulnerable groups and such pollutants can further aggravate health conditions of COVID-19 positive persons besides persons staying in home isolation;

And whereas, the Technical Expert Committee of the State Government has recommended for prohibition of burning of fire crackers to protect the vulnerable groups like elderly, children, persons with co-morbidities and others;

And whereas, considering the potentially harmful consequences of burning of crackers amidst COVID-19 pandemic situation and approaching winter, the State Government have directed to prohibit the sale and use of fire crackers from 10th to 30th of November, 2020 in public interest;

Now, therefore, in exercise of the powers conferred under section 24(l) of the Disaster Management Act, 2005 read with rule 8(1) of the Odisha Disaster Management Rules, 2010, the undersigned hereby directs that the sale and use of fire crackers shall remain prohibited in all parts of the State from 10th to 30th of November, 2020.


Any person found violating this order shall be punished under the provisions of the Disaster Management Act, 2005 and other relevant laws.


Chief Secretary, Odisha

Memo No. 6219 /R&DM(DM)

Date: 03-11-2020


Copy forwarded to the Private Secretary to Hon'ble Chief Minister/ Private Secretary to all Ministers/ Chief Secretary/ Development Commissioner/ Agriculture Production Commissioner for kind information.


Special Relief Commissioner &
Additional Chief Secretary to Govt.
(Disaster Management)

Memo No. 6220 /R&DM(DM)

Date: 03-11-2020


Copy forwarded to the Addl. Chief Secretary/ Principal Secretary/ Commissioner-cum-Secretary of all Departments/ Director General of Police/ Director General of Police, Fire Services/ Police Commissioner, Bhubaneswar-Cuttack/ All RDCs/ All Collectors/ Superintendents of Police/ All Municipal Commissioners/ Member Secretary, State Pollution Control Board for kind information and necessary action.


Special Relief Commissioner &
Additional Chief Secretary to Govt.
(Disaster Management)

Memo No. 6221 /R&DM(DM)

Date: 03-11-2020

Copy forwarded to the Joint Secretary (Disaster Management), Ministry of Home Affairs (Disaster Management Division), Government of India for kind information.


Special Relief Commissioner &
Additional Chief Secretary to Govt.
(Disaster Management)