

**Proceedings of the 5<sup>th</sup> Meeting  
of  
Air Quality Monitoring Committee  
under  
Chairmanship of Principal Secretary, Science, Technology and Environment**



**14<sup>th</sup> May 2019**

**Directorate of Environment and Climate Change  
Department of Science, Technology and Environment  
Government of Punjab**

**Minutes of 5<sup>th</sup> meeting of Air Quality Monitoring Committee (AQMC) held under the Chairmanship of Principal Secretary, Science, Technology & Environment (STE), Govt. of Punjab on 14.05.2019 at 11:30 AM in the Conference Room, O/o PSCST, Chandigarh to review Progress of Action Plans for Clean Air of 9 Non-Attainment Cities**

1. Following officers attended the meeting:

1.	Department of Environment	<ol style="list-style-type: none"> <li>1. Sh. Rakesh Kumar Verma, IAS, PSSTE</li> <li>2. Sh. Keshav Hingonia, IAS, ASSTE</li> <li>3. Sh. Pardeep Garg, JD,</li> <li>4. Sh. Parveen Saluja, EE,</li> <li>5. Sh. Abhishek Chauhan, SO</li> <li>6. Ms. Harpreet Kaur Sehgal, SRF</li> </ol>
2.	Punjab State Council for Science & Technology	<ol style="list-style-type: none"> <li>1. Dr. S.S. Ladhar, AD</li> </ol>
3.	Punjab Pollution Control Board	<ol style="list-style-type: none"> <li>1. Sh. G.S. Majithia, CEE,</li> </ol>
4.	Department of Local Government	<ol style="list-style-type: none"> <li>1. Sh. Radesh Kalra, JDD</li> <li>2. Sh. Sandeep Singh, EE, MC, Amritsar</li> <li>3. Sh. Rampaul, SDO, MC, Jalandhar</li> <li>4. Dr. Kanwar Ajay Singh MOH, MC, Amritsar</li> <li>5. Sh. Charanjit Singh ,EO, MC, Mandi Gobindgarh</li> <li>6. Ranbir Singh, EO, MC, Khanna</li> <li>7. Dr. Sudesh Partap, HO), MC, Patiala</li> <li>8. Sh. Muneet Sharma,JE, MC, Dera Baba Nanak</li> <li>9. Sh. Hardeep Singh, JE, MC, DeraBassi</li> <li>10. Sh. Charan Singh, JE, MC, Naya Nangal</li> <li>11. Sh. Kamal Singh, JE, MC, Mandi Gobindgarh</li> <li>12. Sh. Sahil Malhotra, SI, MC, Amritsar</li> </ol>
5.	Department of PWD (B&R)	<ol style="list-style-type: none"> <li>1. Sh. Ravi Chawla, EE,</li> <li>2. Sh. Samarpreet Singh, SDE</li> </ol>
6.	Department of Industries and Commerce	<ol style="list-style-type: none"> <li>1. Sh. S.K. Sharma, EE, PSIEC .</li> </ol>
7.	Department of Transport	<ol style="list-style-type: none"> <li>1. Sh. Charandev Singh Mann, ASTC, STC Punjab</li> </ol>
8.	Department of Food & Civil Supplies, Punjab	<ol style="list-style-type: none"> <li>1. Sh. Sanjeev Gupta ,DFSO</li> <li>2. Sh. Anil Duggal, JR</li> </ol>

9.	Additional Director General Police (Traffic)	1. Sh. Manmeet Singh Dhillon, SP, Traffic
10.	Department of Housing & Urban Development Punjab	1. Sh. Balwinder Singh , SE
11	Department of Agriculture	1. Sh. Manmohan Kalia, Director

**Agenda No. 5.1: Action Taken Report on the Minutes of the meeting held on 25.03.2019**

Action taken on the proceedings of 4<sup>th</sup> meeting was noted by the Committee.

**Agenda No. 5.2: Review of progress w.r.t. activities pertaining to Punjab Pollution Control Board**

1. Progress made by the Board was discussed as under:

Sno.	Activity	Observations and Decisions
1.	CIE-0: Air Quality Monitoring report by PPCB	Average PM <sub>10</sub> value was reported in the range of 50-201 µg/m <sup>3</sup> in 09 non-attainment cities during April, 2019.  PPCB to demonstrate online monitoring of air quality and the same to be integrated with DECC website
2.	CIE-1: Conversion to Side Hood Suction in Induction Furnaces	Only 39 industries out of total 138, have been converted to Side Suction Hood. PPCB to take following actions :  i) Expedite the conversion of Induction furnaces to Side Suction Hood.  ii) Examine whether legal directions are required under Air Act to

		<p>ensure conversion in a time bound manner.</p> <p>iii) Cross-check the record of M/s Madhav Alloys to verify the quantity of APCD dust being provided by units converted to side suction hood technology.</p>
3.	CIE -2(i) : Industries to be converted from coal to CNG	<p>Only 12 industries out of total 908 have converted to CNG from Coal.</p> <p>PPCB need to take effective steps for mobilizing industry for adopting CNG as fuel. PPCB to also examine whether legal directions need to be issued under Air Act towards achieving the objective provided availability of CNG is there.</p>
4.	CIE 3: Conversion of Natural Draft Brick Kilns to Induced Draft Brick Kilns	<p>Only 24 brick kilns out of total 101 have converted to Induced Draft Technology.</p> <p>PPCB to expedite the conversion process as no further extension beyond September, 2019 will be given to the Brick Kilns. Environmental compensation must be recovered by the Board.</p>
5.	CIE 4 Action against non-complying Industrial units (Out of 2279 industries located within 5 Km of MC limit)	<p>PPCB has initiated action against 97 non-compliant industries out of 593 units inspected.</p> <p>i) In view of the large scale non-compliance, PPCB must take bank guarantee/ impose environmental compensation against non-compliance and violations.</p> <p>ii) PPCB need to incorporate following important parameters in the</p>

		<p>inspection proforma for checking the adequacy of APCD :</p> <p>a) Quantity of dust being collected (Quintal/month) at APCD,</p> <p>b) Year of installation of APCD</p> <p>c) Production capacity (T/hr) of furnace.</p> <p>It is important because effective life of an APCDs is generally 4-5 years only and dust collection efficiency ranges from average 20-40 kg/day &amp; 40-70 kg/day from a re-rolling mill of production capacity 2-5 T/hr and 6-10 T/hr respectively.</p> <p>ii) CEE and SEE, PPCB shall inspect 5% &amp; 10% of the industry inspected by ROs respectively and submit progress in the prescribed proforma. Inspections by third parties/ Independent inspections shall also be carried out</p> <p>iii) PPCB shall also maintain separate head for the amount collected from Environmental Compensation, /Encashment of Bank Guarantees and the same shall be spent on restoration of environment as per the approved guidelines.</p>
<p>6.</p>	<p>CBGB 3 – Control on burning of agriculture waste and crop residue</p>	<p>PPCB to conduct public awareness campaigns like radio jingles, media bites &amp; village camps about the ill effects of crop residue burning.</p> <p>PPCB shall coordinate with District Administration regarding inspection of</p>

		fire incidents and for taking action against violators.
7.	COS 1 – Dissemination of Air Quality Index	<p>No display boards set up</p> <p>No other additional efforts to disseminate air quality index taken up.</p> <p>PPCB to expedite action for dissemination of air quality index.</p> <p>PPCB shall also procure Mobile Van for the air quality monitoring and public awareness on pattern of PGI, Chandigarh.</p>
8.	COS 2 & 3 – Establish an Air Quality Management Division at SPCB HQ and helpline in each city as well as SPCB HQ	<p>PPCB has yet not strengthened separate Air Quality Management Division at SPCB HQ and helpline in each city as well as SPCB HQ.</p> <p>PPCB to expedite the action</p>
9.	COS 4 – Monitoring of DG sets and actions against violations	<p>PPCB has monitored 26 DG sets during April, 2019 and found 8 violations. Show Cause Notice issued to 3 violators and action against remaining is under process.</p> <p>Bank Guarantee/ Environmental Compensation must be imposed on violators.</p>
10.	COS 5 – Source Apportionment Study	<p>PPCB has engaged the services of IIT, Delhi to carry out the Source Apportionment Studies in the remaining 7 non-attainment cities for which MoU is to be signed.</p>

		PPCB to share draft MoU with DECC.
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2. A D.O. letter shall be written to DC's for submitting progress of various activities related to clean air action plan monitored by AQMC at District level for 9 non-attainment cities.
3. PPCB shall make arrangement for video conferencing and may ask nodal officers of ROs/HO to participate in meetings through video conferencing.

**Agenda N. 5.3**

**Review of progress w.r.t. activities pertaining to Local Government:**

1. Progress made by the Department was discussed as under:

Sno.	Activity	Observations and Decisions
1	CRD 1 (i) : Maintain pothole free roads /Patch work of roads	2.8 Km road length made pothole free and work of tendering of 174 Km out of total 201.45 Km, was under process.  Department to expedite the work and ensure to maintain pothole free roads.
2	CRD 2 (i): Water sprinkling on identified roads	ULBs of Mandi Gobindgarh, Jalandhar & Amritsar have yet not started water sprinkling on identified roads.  Department to ensure regular water sprinkling on identified roads by all ULBs.
3	CRD 2 (ii) : Procurement of water sprinklers	Tendering to procure 7 nos water sprinklers out of total 15 nos, have been completed by MC Derabassi, Khanna & Ludhiana.  Department to ensure that activity must be completed within scheduled time.
4	CRD 3 :Procurement of	No progress has been reported by any ULBs.

	Mechanical sweeping machines	Department to ensure that activity must be completed within time.
5	CRD 4(i) - Creation of green buffers along road side	410 nos. of trees/shrubs have been planted by Ludhiana and Amritsar ULBs during the month of April, 2019.  Department to ensure that activity be completed within time.
6	CRD 5 - Greening of parks, open areas, community places, schools and housing societies	487 nos. of trees/shrubs have been planted by Ludhiana, Amritsar and Nangal ULBs during the month of April, 2019  Department to ensure that activity be completed within time.
7	CRD 6 - Installation of Water fountains at major traffic intersections	No progress has been reported by any ULBs.  Department to ensure that activity be completed within time.
8	CRD 7 (a-i) - Kaccha/Brick Paved Roads to be made Pucca roads	Tendering of 13 km of roads stretch out of 82.36 Km, have been completed by Ludhiana & Dera Baba Nanak . No progress has been made by other ULBs due to model code of conduct.  Department to ensure that activity be completed within time.
9	CRD 7 (b-i) -Existing roads requiring recarpeting	23.3 Km of existing roads have been recarpeted out of total road length 207 Km by Patiala, Ludhiana and Amritsar. No progress has been made by other ULBs due to model code of conduct.  Department to ensure that activity be completed within time.



10	CRD 7 (c-i) - Pavement of road side using interlocking tiles	3.24 Km road length out of total 61 Km, have been paved by the Patiala & Nangal ULBs. No progress has been made by other ULBs due to model code of conduct.  Department to ensure that activity be completed within time.
11	CVE 4 (a-i) - Creating parking infrastructure to prevent parking of vehicles in non-designated areas by designated parking lot site (Nos.)	DPR of 1 no parking lot has been prepared by Khanna ULB. No progress has been made by other ULBs due to model code of conduct.  Department to ensure that activity be completed within time.
12	CVE 4 (a-ii) - Creating parking by developing Multi storey parking lots (Nos.)	DPRs of 3 nos multi story parking lots have been prepared by Ludhiana. No progress has been made by other ULBs due to model code of conduct.  Department to ensure that activity be completed within time.
13	CVE 4 (a-iii) - Creating parking for trucks/ commercial vehicles (Nos.)	No progress has been made by Mandi Gobindgarh & Khanna ULBs.  Department to ensure that activity be completed within time.
14	CVE 4 (a) - Creating parking infrastructure to prevent parking of vehicles in	1 nos "Roadside parking by yellow line" have been earmarked by Khanna ULB.  Department to ensure that activity be completed within time.

	non-designated areas	
15	CVE 4 (b) - Prevent parking of vehicles in non-designated areas by enforcement	10 nos "No Parking" sign boards have been installed by Khanna ULB.  Department to ensure that activity be completed within time.
16	CVE 6 (a) - Widening of roads and infrastructure for decongestion of roads	1.05 Km road length have been widened and tendering of 13 Km has been completed by Patiala and Ludhiana ULBs.  Department to ensure that activity be completed within time.
17	CVE 6(b) - Road design improvement	No progress has been reported by Ludhiana,  Department to ensure that activity be completed within time.
18	CVE 7 - Installation of intelligent traffic systems	Jalandhar city has initiated the process of introduction of Intelligent traffic system under Smart City Project.  It was decided that officers of remaining ULBs may take advice from Jalandhar ULB to fast track the process of introduction of Intelligent traffic system.
19	CVE 8 - Construction of expressways/ bypasses to avoid congestion	No progress has been reported by Ludhiana ULB.  Department to ensure that activity be completed within time.

20	CVE 11 (b) – Introduction of CNG based city Bus Service	<p>No progress has been reported by any ULBs.</p> <p>Department of Local Government will expedite Introduction of CNG based city Bus Service in 3 major non-attainment cities (Ludhiana, Jalandhar &amp; Amritsar).</p>
21	CBGB 1 – Control on open burning of bio-mass in City	<p>Construction of 313 nos. pucca pits out of 856 nos. have been completed. No progress has been made by ULBs except Patiala and Derabassi.</p> <p>Department to ensure that activity be completed within time.</p>
22	CBGB 2 – Control on burning of municipal solid wastes	<p>Ludhiana and Derabassi ULBs conducted 197 nos. inspections and 04 nos of Challan were issued to the violators. No progress has been made by other ULBs.</p> <p>Department to ensure regular inspection be carried out by all the ULBs</p>
23	CCDA 1 (a) – Enforcement of Construction & Demolition Waste Rules	<p>126 nos. of inspection have been made by ULB except Mandi Gobindgarh, Jalandhar and Derabassi and 69 nos. of challan’s were issued to violators.</p> <p>Department to ensure that regular inspection be carried out by all the ULBs</p>
24	CCDA 1 (b) – Development of Infrastructure of Construction & Demolition waste	<p>01 site each developed by Ludhiana and Naya Nangal. No progress has been made by other ULBs.</p> <p>Department to ensure that activity be completed within time</p>

25	CCDA 2 – Control measures for fugitive measures w.r.t Construction & Demolition Activities	<p>60 nos. of inspection were made out of which 21 nos. of challan’s were issued by Patiala ULB. No progress has been made by other ULBs due to model code of conduct.</p> <p>Department to ensure that regular inspection to be carried out by all the ULBs and challan to be issued to violators</p>
26	CCDA 3 – Control measures for carrying the construction material enclosed/ covered vessels	<p>11 nos. of inspection have been made by Khanna, Patiala and Dera Baba Nanak ULBs .No progress has been made by other ULBs due to model code of conduct.</p> <p>Department to ensure that regular inspection to be carried out by all the ULBs and challan to be issued to violators</p>

2. State Nodal officer, Local Govt. shall submit the compiled progress of 9 ULBs every month regularly by 7th of succeeding month till the time web based Environment Protection Monitoring System is in place.
  
3. Department of Local Govt. shall ensure that due priority is accorded to various activities in the Action plan for funding from "Urban Environment Improvement Programme" launched by Government of Punjab for the infrastructure/ maintenance related activities proposed in the action plans. The Department will submit action taken report regarding the same in the next meeting.

**Agenda No.9.4**

**Review of progress w.r.t. activities pertaining to PWD**

Progress made by the Department was discussed as under:

Sno.	Activity	Observations and Decisions
1	CRD 1 (ii) : Maintain pothole free roads /Patch work of roads	9 Km of road length made pothole free, work of 29.58 Km under progress and Administrative approval is awaited for 17.23 Km.  Department to expedite the action for which Administrative approval is awaited.
2	CRD 7 (b-ii) - Existing roads requiring recarpeting	81 Km road length recarpated and Administrative approval is awaited for 16.28 Km.  Department to expedite the action for work which Administrative approval is awaited.
3	CRD 7 (c-ii) - Pavement of road side using interlocking tiles	52.782 Km road length paved using interlocking tiles and administrative approval is awaited for 14.8 Km.  Department to expedite the action for work which Administrative approval is awaited.
4	CVE 6 (a) - Widening of roads and infrastructure for decongestion of roads	16.36 Km road length widened and administrative approval is awaited for 21.3 Km.  Department to expedite the action for work which Administrative approval is awaited.

**Agenda No. 5.5 Review of progress w.r.t. activities pertaining to PUDA**

Progress made by the Department was discussed as under:

<b>Sr. No.</b>	<b>Activity</b>	<b>Observations and Decisions</b>
1	CRD 1 (iii) : Maintain pothole free roads /Patch work of roads (PUDA)	Work of 21.3 Km road stretch was under progress at Patiala.  Department to ensure that activity be completed within time.
2	CRD 7 (a-ii) - Kaccha/Brick Paved Roads to be made Pucca roads	Work of 8.32 Km under progress and tendering for work of 2.55 Km is completed.  Department to ensure that activity be completed within time.
3	CRD 7 (b-iii) - Existing roads requiring recarpeting	11.94 Km road length out of 12 Km, has been recarpetted.  Department to ensure that activity be completed within time.
4	CRD 7 (c) - Pavement of road side using interlocking tiles	Work for 11.84 Km identified road length was under progress.  Department to ensure that activity be completed within time.
5	CVE 6 (a) - Widening of roads and infrastructure for decongestion of roads	Work of 21.4 Km under progress and tendering for remaining work of 2.4 Km is completed.  Department to ensure that activity be completed within time.

**Agenda No. 5.6 Review of progress w.r.t. activities pertaining to Department of transport**

Progress made by the Department was discussed as under:

Sno.	Activity	Observations and Decisions
1	Activity CVE 1: Public awareness campaign for control of vehicular emissions	No progress submitted for the activity.  Deptt. to submit its annual target for public awareness.
2	Activity CVE 2: Remote sensor based PUC system	Department informed that 599 nos. of Pollution Check Centre have been identified in 9 non-attainment cities which will be linked with VAHAN 4.0 software.  Department to ensure that activity be completed within time.
3	Activity CVE 9: Phasing out commercial diesel vehicles more than 15 years old.	No concrete action taken by the Department  Deptt. to intimate proposed steps to be taken for the activity.
4	Activity CVE 10: Promotion of E-vehicles	Progress awaited from the Department  Deptt. to expedite the work of notification of the E-vehicle Policy.
5	Activity CVE 11: Introduction of CNG based autos/taxis.	Progress awaited from the Department.  It was decided as under:  i) Department to expedite the process of introduction of CNG base autos/taxis in non-attainment cities  ii) Deptt. to submit the progress

		regarding implementation of direction issued by PPCB vide letter no. 5 dated 3.1.2019 u/s 31-A of the Air Act,1981 in the 5 Districts namely Ludhiana, Jalandhar, Amritsar, Mohali and Fatehgarh Sahib for not registering any new diesel/petrol driven auto rickshaw (s) in these districts w.e.f. 1.2.2019
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**Agenda No. 5.7      Review of progress w.r.t. activities pertaining to Traffic Police**

Progress made by the Department was discussed as under:

Sno.	Activity	Observations and Decisions
1	Activity CVE 1: Public awareness campaign for control of vehicular emissions	Progress awaited from the Department.  Deptt. shall submit the progress every month regularly by 7 <sup>th</sup> of succeeding month.
2	Activity CVE 3:Extensive drive against polluting vehicles.	Progress awaited from the Department.  Deptt. shall submit the progress every month regularly by 7 <sup>th</sup> of succeeding month
3	Activity CVE 4: Prevent parking of vehicles in non-designated areas by enforcement actions	Progress awaited from the Department  Deptt. shall submit the progress every month regularly by 7 <sup>th</sup> of succeeding month

Traffic Police to immediately nominate a Nodal officer for better coordination & effective implementation of action plan.



**Agenda No. 5.8      Review of progress w.r.t. activities pertaining to PSIEC**

Progress made by the Department was discussed as under:

<b>Sno.</b>	<b>Activity</b>	<b>Observations and Decisions</b>
1	Activity CRD 4: Creation of green buffers along the road side	No progress made as the work of plantation will begin during rainy season.  Deptt. shall submit the progress next month
2	Activity CRD 7: Existing roads requiring recarpeting	Work completed for 3 kms and tendering for 17 Km is under progress.  Department to ensure that activity be completed within time.
4	Activity CIE 2: Creation of Infrastructure for CNG Pipeline	It was decided that action regarding roll out plans and coordination on behalf of the State Government is done by the Department of Industries and the Department may be requested to expedite implementation of laying of CNG pipelines and other related infrastructure in major cities like Mandi Gobindgarh, Khanna, Ludhiana, Jalandhar and Amritsar.
3	Activity CIE 5: Shifting of industries from non-designated areas to industrial Area	No progress submitted for above activity.  PSIEC shall conduct a joint meeting with the Industrial Associations, PPCB and Deptt. of Town & Country Planning to explore the possibility of shifting the industry from non-designated area to designated areas.

**Agenda No 5.9****Review of progress w.r.t activities pertaining to Department of Food & Civil Supplies**

Progress made by the Department was discussed as under:

<b>Sno.</b>	<b>Activity</b>	<b>Observations and Decisions</b>
1	Activity CIE 2: Creation of Infrastructure for CNG Pipeline	DFSO informed that work for laying of CNG pipeline is not under their preview as the same is related to Local Govt as per its notification dated 16.04.2019.  Further action regarding roll out plans and coordination on behalf of the State Government is done by the Department of Industries and the Department may be requested to expedite implementation of laying of CNG pipelines and other related infrastructure in major cities like Mandi Gobindgarh, Khanna, Ludhiana, Jalandhar and Amritsar.
2	Activity CVE 5: Check fuel adulteration	No progress submitted for activity.  Deptt. shall make regular inspections to check fuel adulteration & also collect data of inspections made by oil companies.
3	Activity CVE 11: Infrastructure development for CNG filling stations	01 no. of conventional filling station upgraded to CNG filling stations at Mandi Gobindgarh during the month of April,2019  Department to ensure that activity be completed within time.

**Agenda No.9.10 Other Important Decisions**

1. Representatives of IIT, Delhi and PGI, Chandigarh be invited in the next meeting to discuss the various important issues related to Action Plans.
2. Progress of various stakeholder departments was found slow. All the stakeholder departments were requested to expedite various activities related to them and submit the monthly progress of the same positively by 7th of succeeding month in the prescribed format. Chief Secretary is required to submit the report to NGT for quarter ending June 30, 2019 and then appear before NGT in the month of September.
3. It was further noted that NGT in its last order had expressed displeasure in non-finalization of the plans and directed penalties for the States who fail to submit the plan by the due date. Even though, the State has submitted the plans, it seems to be a difficult task to achieve the target of bringing the air quality within the prescribed limit within the time prescribed by NGT unless efforts are made on war footing.
4. In order to ensure that all activities across all the responsible agencies across all the non-attainment cities are effectively monitored, data analysed, delays escalated, responsibility fixed and corrective action taken, program team needs to be strengthened by engaging a team of two Environmental Engineers with the consolidated salary of Rs. 76893/- each (equivalent to the salary of Process Engineers/Senior Scientific Officer in the PSCST), two Senior Research Fellow (SRF) as per the guidelines of PSCST. The requisite project manpower shall be recruited by PSCST in project mode for implementation of Clean Air Action Plans for non-attainment cities in order to ensure compliance of the NGT orders.
5. NEERI/Other reputed agencies shall be involved for capacity building of State level officials of various stakeholder departments

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