



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

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Dated: 25.09.2020

To,
The Regional Director,
Eastern Regional Directorate,
Southern Conclave, Block-502, 5th & 6th Floors,
#1582, Rajdanga Main Road, Kolkata 700107

Subject: Joint Monitoring of drains and tributaries from Gangotri to Bay of Bengal during Post-monsoon, 2020

Sir,

Post-Monsoon, 2020 monitoring of drains discharging into River Ganga and its tributaries (Banganga, Ramganga, Kali East and Pandu) from Gangotri to Bay of Bengal is scheduled from October 1st – December 31st, 2020.

It is proposed that 87 drains identified by CPCB along with 4 additional drains provided by BUIDCO during the meeting held on 07.01.2020 for calculation of Environmental Compensation as well as any other yet to be identified drains not placed in enclosed list which discharges into main stem of River Ganga shall be monitored by Joint team from CPCB, RD, Kolkata, respective SPCB (WBSPCB, BSPCB, JSPCB) and other Concerned departments. The team shall also evaluate the performance of alternative treatment systems adopted in the drains by collecting samples from U/S & D/S locations where the interim measures have been taken.

Monitoring schedule may kindly be finalised and informed to CPCB, Head Office. Monitoring should be completed by December 31, 2020 and monitoring reports should be provided to Head Office before 15.01.2021 positively. Joint monitoring reports would be utilised as physical compliance verification with respect to Hon'ble NGT order dated 22.08.2019 in the matter of M. C. Mehta Vs. Union of India in O. A. No. 200/2014.

The team shall follow the revised drain monitoring format (copy enclosed) for reporting purpose.

Encl:

1. List of the drains
2. Revised drain reporting format

Yours faithfully,

Dr. A. K. Vidyarthi
25/09/20

(Dr. A. K. Vidyarthi)

Divisional Head, WQM II &
Additional Director, CPCB

List of Identified, Priority and Additional Drains to be monitored by RD, Kolkata during Post-Monsoon, 2020

| Bihar, Phase-III (UP Border to Jharkhand) | | | | |
|--|----------------|---|-------------------|--------------------------------|
| No. of Identified Drains | Town/Catchment | No. of Priority Drains | Pollution Sources | If discharged into Drain/River |
| 1. | Buxer | 1. Sidnath Drain | Domestic | Ganga Right |
| 2. | Buxer | 2. Nath Baba Drain | Domestic | Ganga Right |
| 3. | Buxer | 3. Tadka Drain | Domestic | Ganga Right |
| 4. | Buxer | 4. Sariapur Drain | Domestic | Ganga Right |
| 5. | Buxer | 5. Danapur Cantt. Drain-Interim Measured | Domestic | Ganga Right |
| 6. | Patna | 6. Digha Ghat Drain | Domestic | Ganga Right |
| 7. | Patna | 7. Kurzi Drain | Mixed | Ganga Right |
| 8. | Patna | 8. Rajapur Drain-Interim Measured | Domestic | Ganga Right |
| 9. | Patna | 9. Bans Ghat Drain | Domestic | Ganga Right |
| 10. | Patna | 10. Collectorate Ghat Drain | Domestic | Ganga Right |
| 11. | Patna | 11. Mittan Ghat Drain | Domestic | Ganga Right |
| 12. | Munger | 12. ITC Drain | Domestic | Ganga Right |
| 13. | Munger | 13. Lal Darwaja drain | Domestic | Ganga Right |
| 14. | Bhagalpur | Jamunia/Champa Drain - Non Priority | Domestic | Champa Nullah Right |
| 15. | Bhagalpur | Adampur Drain - Non Priority | Domestic | Champa Nullah Right |
| 16. | Bhagalpur | 14. Sarkikal Drain | Domestic | Ganga Right |
| 17. | Bhagalpur | 15. Saklichand Drain | Domestic | Ganga Right |
| 18. | Bhagalpur | 16. Barari Ghat Drain | Domestic | Ganga Right |
| 19. | Bhagalpur | Manik Sarkar Drain - Non Priority | Domestic | Champa Nullah |
| 20. | Bhagalpur | 17. DN Singh Drain | Domestic | Ganga Right |
| 21. | Bhagalpur | 18. Koyal Ghat Drain | Domestic | Ganga Right |
| 22. | Kahalgaon | 19. Kowa Drain | Mixed | Ganga Right |
| Jharkhand, Phase-III (UP Border to Jharkhand) | | | | |
| No. of Identified Drains | Town/Catchment | No. of Priority Drains | Pollution Sources | If discharged into Drain/River |
| 23. | Sahebganj | 1. Gopal Pull Nallah | Domestic | Ganga Right |
| 24. | Sahebganj | 2. Jharna Nallah | Domestic | Ganga Left |
| West Bengal, Phase-IV (Jharkhand Border to Bay of Bengal) | | | | |
| No. of Identified Drains | Town/Catchment | No. of Priority Drains | Pollution Sources | If discharged into Drain/River |
| 25. | Jangipur | 1. Jangipur Drain | Domestic | Ganga Left |
| 26. | Kalyani | 2. Majher Char Khal | Domestic | Ganga Left |
| 27. | Halisahar | 3. Halisahar Drain | Domestic | Ganga Left |
| 28. | Garifa | 4. Garifa Drain-South/Ramaghat-Open pucca drain | Domestic | Ganga Left |
| 29. | Garifa | 5. Garifa Drain-North | Mixed | Ganga Left |
| 30. | Ramaghat | Ramaghat-Open pucca drain - Non Priority | Domestic | Garifa South Drain |
| 31. | Naihati | 6. Thanar Khal | Domestic | Ganga Left |
| 32. | Naihati | Sawan ghat Drain - Non Priority | Domestic | Bhatpara Open Pucca Drain |
| 33. | Hooghly | 7. Dhopa Ghat Drain | Domestic | Ganga Right |
| 34. | Hooghly | 8. Imambara Khal | Domestic | Ganga Right |
| 35. | Hooghly | 9. BTPS Out fall Drain-I | Mixed | Ganga Right |
| 36. | Hooghly | 10. ITC Triveni Drain | Mixed | Ganga Right |
| 37. | Hooghly | 11. Chinsurah-Majir Rasta Drain | Domestic | Ganga Right |
| 38. | Chinsurah | 12. Chandni Ghat Drain | Domestic | Ganga Right |
| 39. | Chandannagar | 13. Chandannagar Drain | Domestic | Ganga Right |
| 40. | Bhatpara | 14. Bhatpara Drain | Mixed | Ganga Left |
| 41. | Bhatpara | 15. Bhatpara Open pucca drain | Mixed | Ganga Left |
| 42. | Baidyabati | 16. Baidyabati Drain | Mixed | Ganga Right |
| 43. | Baidyabati | Seraphouli Khal - Non Priority | Domestic | Ganga |
| 44. | Ichapur | 17. Debitala Pancha Khal | Domestic | Ganga Left |
| 45. | Chanddani | 18. DVC Canal | Domestic | Ganga Right |
| 46. | Serampore | 19. Serampore/Bhagirathi Drain | Domestic | Ganga Right |
| 47. | Serampore | 20. Chatra Khal | Domestic | Ganga Right |
| 48. | Barrackpore | 21. Barrackpore Khal | Domestic | Ganga Left |

| | | | | |
|-----|----------------------|---|----------|-----------------|
| 49. | Barrackpore | 22. Gandhighat Drain | Domestic | Ganga Left |
| 50. | Barrackpore | 23. Dhobi Ghat Drain | Domestic | Ganga Left |
| 51. | Titagarh | 24. Titagarh Drain | Mixed | Ganga Left |
| 52. | Rishra | 25. Hasting Ghat Drain | Domestic | Ganga Right |
| 53. | Rishra & Konnagar | 26. Bagh Khal | Domestic | Ganga Right |
| 54. | Khardah | 27. Khardah Khal | Domestic | Ganga Left |
| 55. | Khardah | 28. Balughat-Manirampur pucca drain | Domestic | Ganga Left |
| 56. | Khardah | 29. Champdany Ferry Ghat/ Paolghat Drain | Mixed | Ganga Right |
| 57. | Kamarhati | Kashipur Khal/Cossipore - Non Priority | Domestic | Cossipore Khal |
| 58. | Bally | 30. Dewangazi Ghat Drain | Domestic | Ganga Right |
| 59. | Bally | 31. Bally Khal | Mixed | Ganga Right |
| 60. | Belur | 32. Jagatnath Ghat Drain-1 | Domestic | Ganga Right |
| 61. | Baranagar | 33. Kamarhati Drain @ Jute Mill | Mixed | Ganga Left |
| 62. | Baranagar | 34. Kamarhati Drain @ PB Ghat | Domestic | Ganga Left |
| 63. | Baranagar | Baranagar Khal - Non Priority | Domestic | Kuthighat Drain |
| 64. | Baranagar | 35. Kuthighat Drain/ Baranagar Khal | Domestic | Ganga Left |
| 65. | Chitpur | 36. Chitpur Ghat Khal/ Circular Canal | Domestic | Ganga Left |
| 66. | Cossipore | 37. Cossipore/ Kashipur Khal | Domestic | Ganga Left |
| 67. | Shobhabazar/ Chorial | 38. Muni Khali Khal | Domestic | Ganga Left |
| 68. | Howrah | 39. Pratapnagar-Rajbari Drain | Domestic | Ganga Left |
| 69. | Howrah | 40. Telkal Ghat Drain | Mixed | Ganga Right |
| 70. | Howrah | 41. Ramkrishna Ghat Drain | Mixed | Ganga Right |
| 71. | Howrah | 42. 101, Foreshore Road Drain | Mixed | Ganga Right |
| 72. | Howrah | 43. Sarasvati Khal | Domestic | Ganga Right |
| 73. | Babughat | Circular Canal - Non Priority | Domestic | Disappeared |
| 74. | Fort William | Fort William Drain - Non Priority | Domestic | Disappeared |
| 75. | Kalighat | 44. Tolly Nala | Domestic | Ganga Left |
| 76. | Kalighat | 45. Nimala Khal | Domestic | Ganga Left |
| 77. | Khidderpore | 46. Dhankheti/ PB Ghat Khal | Mixed | Ganga Left |
| 78. | Shibpur-Howrah | 47. Shibpur Burningghat Drain | Domestic | Ganga Right |
| 79. | Garden Reach | 48. Bagher Khal | Domestic | Ganga Left |
| 80. | Garden Reach | 49. 130 Foreshore Road Drain | Domestic | Ganga Right |
| 81. | Sankrail | 50. Nazerganj Khal | Mixed | Ganga Right |
| 82. | Sankrail | 51. Singhi More Khal | Domestic | Ganga Right |
| 83. | Sankrail | 52. N.C. Pal Khal | Domestic | Ganga Right |
| 84. | Sankrail/ Sarenga | 53. Bazarpara-Garighat Drain/ Sharenga Khal | Mixed | Ganga Right |
| 85. | Budge Budge | 54. Akhra Food Ghat drain | Domestic | Ganga Left |
| 86. | Jagatddul | 55. Alliance Mill Drain | Domestic | Ganga Left |
| 87. | Bandel | 56. Rosbara Drain | Domestic | Ganga Right |

| ADDITIONAL DRAIN Jharkhand, Phase-III (UP Border to Jharkhand) | | | | |
|---|-----------------|----------------------------------|-------------------|--------------------------------|
| No. of Additional Drains | Town/ Catchment | No. of Priority Drains | Pollution Sources | If discharged into Drain/River |
| 1. | Rajmahal | 1. Mahajan Toli-Interim Measured | Domestic | Ganga Right |
| 2. | Rajmahal | 2. Neel Kothi-Interim Measured | Domestic | Ganga Right |
| 3. | Rajmahal | 3. Kasim Bazar-Interim Measured | Domestic | Ganga Right |
| 4. | Rajmahal | 4. Ferry Ghat-Interim Measured | Domestic | Ganga Right |

DRAIN MONITORING FORMAT
(All Fields are Compulsory)

Date & Time of sampling:

| | | | | |
|---------------------------------|---|-------------------------------|--------------------------------|--------------------|
| 1. | Name of the Drain (as per list enclosed, if new please mention) | : | | |
| 2. | Meeting Banganga/Ganga/Ramganga/Kali-east/Others at Left/Right | : | (Name of River – Left/ Right) | |
| 3. | Name of the Regional Office of SPCB | : | | |
| 4. | Source of Pollution load (Domestic/ Mixed/ Industrial) | : | | |
| 5. | If Industrial /Mixed (name of the units – sector – effluent generation) details may be obtained from the concert regional officers of SPCB | : | | |
| 6. | Traceable length (in km) before meeting Ganga and its tributaries (through google earth/map) | : | | |
| 7. | Catchment areas (mention include the town of origin and confluence with river) | : | | |
| 8. | Co-ordinate of the confluence point (if not reachable indirect through google earth/map) (Decimal units) | Latitude | : | |
| | | Longitude | : | |
| | Distance from confluence point to sampling point (may the find out over google earth/map), km | : | | |
| 9. | Co-ordinate of the sampling point (Decimal units) | Latitude | : | |
| | | Longitude | : | |
| 10. | Landmarks / Address of the Location | : | | |
| 11. | Flow (MLD) if zero indicate whether dry/ stagnant/ closed/ tapped/ covered by solid waste/ eutrophication/ unmeasurable due to less flow/ In case of Tidal effect, details of low tide & flow monitoring time need to be mentioned. | : | Length = Width – Depth = | Time = Factor – |
| 12. | Tapped or Not (Yes/Not) | : | | |
| 12a. | If yes, provide about | Name & Location of SPS | : | |
| | | SPS Capacity | : | |
| | If drain/SPS diverted to STP, provide about | Name & Location of STP | : | |
| | | STP Capacity | : | |
| | Any other information's | : | | |
| 13. | Interim Remediation measure adopted (Yes/No) | : | | |
| 13a. | If yes, provide about | Date of Commissioning | : | |
| | | Capacity of Remediation (MLD) | : | |
| | | Technology adopted | : | |
| | | Budget | : | |
| 14. | Observations | : | | |
| 15. | Urgent action required, if any | : | | |
| 16. | Name of all monitoring officers along with Designation | : | | |
| 17. | Photos | : | | |
| | | | | |
| Sampling Point/Confluence point | | | Confluence point/ others | |

ANALYSIS RESULT

| GENERAL PARAMETERS | | | | |
|----------------------------------|-------------------------------------|--|------------|--|
| Sl. No. | Parameters | Results | | |
| | | Drains having interim remediation measures | | Drains not having interim remediation measures |
| | | Upstream | Downstream | |
| 1. | Colour (Hazen) | : | | |
| 2. | pH | : | | |
| 3. | BOD (mg/l) | : | | |
| 4. | COD (mg/l) | : | | |
| 5. | TSS (mg/l) | : | | |
| 6. | TDS (mg/l) | : | | |
| 7. | Cl ⁻ (mg/l) | : | | |
| 8. | NH ₃ -N (mg/l) | : | | |
| 9. | NO ₃ ⁻ (mg/l) | : | | |
| 10. | SO ₄ (mg/l) | : | | |
| 11. | PO ₄ (mg/l) | : | | |
| BIOLOGICAL PARAMETERS | | | | |
| 12. | TC (MPN/ 100 ml) | : | | |
| 13. | FC (MPN/ 100 ml) | : | | |
| TRACE METAL/ HEAVY METAL | | | | |
| 14. | Arsenic (As) mg/l | : | | |
| 15. | Cadmium (Cd) mg/l | : | | |
| 16. | Total Chromium (Cr) mg/l | : | | |
| 17. | Copper (Cu) mg/l | : | | |
| 18. | Iron (Fe) mg/l | : | | |
| 19. | Lead (Pb) mg/l | : | | |
| 20. | Manganese (Mn) mg/l | : | | |
| 21. | Nickel (Ni) mg/l | : | | |
| 22. | Mercury (Hg) mg/l | : | | |
| 23. | Zinc (Zn) mg/l | : | | |
| 24. | Antimony (Sb) mg/l | : | | |
| 25. | Cobalt (Co) mg/l | : | | |
| 26. | Selenium (Se) mg/l | : | | |
| 27. | Vanadium (V) mg/l | : | | |
| PESTICIDE | | | | |
| 28. | Water temperature (°C) | : | | |
| Pesticide Analysis Report (OPPs) | | | | |
| 29. | Dimethoate (µg/l) | : | | |
| 30. | Methyl Parathion (µg/l) | : | | |
| 31. | Malathion (µg/l) | : | | |
| 32. | Chloropyrifos (µg/l) | : | | |
| 33. | Ethion (µg/l) | : | | |
| Pesticide Analysis Report (OCPs) | | | | |
| 34. | α-HCH (µg/l) | : | | |
| 35. | β-HCH (µg/l) | : | | |
| 36. | γ HCH (µg/l) | : | | |
| 37. | δ-HCH (µg/l) | : | | |
| 38. | Aldrin (µg/l) | : | | |
| 39. | Dieldrin (µg/l) | : | | |
| 40. | α-Endosulfan (µg/l) | : | | |
| 41. | β-Endosulfan (µg/l) | : | | |
| 42. | OP'DDT (µg/l) | : | | |
| 43. | PP'DDT (µg/l) | : | | |
| 44. | PP'DDE (µg/l) | : | | |