

GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE

LOK SABHA
UNSTARRED QUESTION No. 4025
TO BE ANSWERED ON 19.03.2021

Pollution from Fly Ash

4025. SHRI SUDHAKAR TUKARAM SHRANGARE

Will the Minister of ENVIRONMENT, FOREST AND CLIMATE CHANGE be pleased to state:

- (a) whether the Government is aware that certain thermal power plants are not utilizing the fly ash and improper disposal of such fly ash is leading to air pollution;
- (b) if so, the details thereof, State/UT-wise including Maharashtra; and
- (c) the remedial steps taken by the Government in this regard?

ANSWER

MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(SHRI BABUL SUPRIYO)

(a)& (b) The State/UT-wise details of fly ash utilization by Thermal Power Plants (TPP) during the FY 2018-19 and 2019-20 including Maharashtra is enclosed at **Annexure-1**. The TPPs which cannot utilize 100% fly ash in time, dispose the fly ash in designated emergency ash pond. TPPs are mandated to put in place adequate air pollution control measures which inter-alia include wet slurry disposal, water sprinkling to prevent and control air pollution due to fly ash disposal.

(c) The MoEF&CC issued a fly ash notification on 14.09.1999 for 100% utilization of fly ash generated from Thermal Power Plants. In order to achieve 100% utilization, the Principal Notification was amended in 2003, 2009 and 2016. The MoEF&CC issued guidelines for disposal/utilisation of fly ash in reclamation of low lying areas and in backfilling / stowing of abandoned mines in environmentally sound manner on 28.08.2019.

ANNEXURE – I**State-wise list of Thermal Power Plants which could not achieve 100% fly ash utilization during the Financial years 2018-19 and 2019-20**

| Sl. No. | Name | State | Capacity 2018-19 (MW) | % Ash Utilization in 2018-19 | Capacity 2019-20 (MW) | % Ash Utilization in 2019-20 |
|----------------|--|----------------|------------------------------|-------------------------------------|------------------------------|-------------------------------------|
| 1. | Vijaywada, APPGCL, Dr. NTPPS | Andhra Pradesh | 1760 | 103.90 | 1760 | 98.70 |
| 2. | Rayalseema, APPGCL | Andhra Pradesh | 1650 | 84.06 | 1650 | 86.40 |
| 3. | Simhapuri TPS | Andhra Pradesh | 600 | 100.00 | 600 | Non-operational |
| 4. | Thamminapatnam, Meenakshi Energy Pvt. Ltd. | Andhra Pradesh | 300 | 621.81 | 300 | Non-operational |
| 5. | DamodaranSanjeeviah TPS | Andhra Pradesh | 1600 | 65.31 | 1600 | 51.41 |
| 6. | Sembcorp Eenergy India Ltd. (Sembcorp Gayatri TPP) | Andhra Pradesh | 1320 | 69.05 | 1320 | 50.47 |
| 7. | M/s. Sembcorp Energy India Limited, Painampuram | Andhra Pradesh | 1320 | 75.33 | 1320 | 79.17 |
| 8. | Vizag TPP, Hinduja NPCL | Andhra Pradesh | 1040 | 256.55 | 1040 | 44.23 |
| 9. | Bongaigaon Thermal Power Project, NTPC | Assam | 500 | 30.76 | 750 | 45.39 |
| 10. | Kahalgaon, NTPC | Bihar | 2340 | 48.36 | 2340 | 76.53 |
| 11. | Muzaffarpur, NTPC | Bihar | 610 | 40.56 | 610 | 75.68 |
| 12. | Barh, NTPC | Bihar | 1320 | 50.07 | 1320 | 67.01 |
| 13. | Nabi Nagar TPS, BRBCL | Bihar | 750 | 34.42 | 750 | 49.82 |

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| 14. | Nabi Nagar Power G.C. | Bihar | 0 | - | 660 | 51.09 |
| 15. | Barauni TPS, NTPC | Bihar | 720 | 15.00 | 720 | 18.00 |
| 16. | Hasdeo Thermal Power Station, Korba West | Chhattisgarh | 1340 | 50.72 | 1340 | 100.06 |
| 17. | Korba, NTPC | Chhattisgarh | 2600 | 51.09 | 2600 | 67.01 |
| 18. | Korba, EAST CSPGCL | Chhattisgarh | 240 | 108.85 | 240 | 64.80 |
| 19. | Marwa , CSPGCL | Chhattisgarh | 1000 | 24.99 | 1000 | 59.35 |
| 20. | Sipat, NTPC | Chhattisgarh | 2980 | 49.54 | 2980 | 49.10 |
| 21. | Lara STPP, NTPC | Chhattisgarh | 800 | 100.00 | 800 | 0.29 |
| 22. | LancoAmarkantak | Chhattisgarh | 600 | 50.05 | 600 | 68.11 |
| 23. | Kasaipalli, ACB | Chhattisgarh | 270 | 100.00 | 270 | 96.51 |
| 24. | D B Power Ltd. | Chhattisgarh | 1200 | 72.49 | 1200 | 83.81 |
| 25. | Akaltara, Mahanadi Power | Chhattisgarh | 1800 | 91.02 | 1800 | 108.54 |
| 26. | Uchpinda, RKM Power | Chhattisgarh | 1080 | 90.54 | 1440 | 95.34 |
| 27. | Raipur Energen (GMR) Adani | Chhattisgarh | 1370 | 91.20 | 1370 | 100.16 |
| 28. | Maruti Clean Coal & Power Ltd. | Chhattisgarh | 300 | 100.00 | 300 | 97.44 |
| 29. | SCPL Ratija, Spectrum Coal & Power | Chhattisgarh | 100 | 99.37 | 100 | 96.59 |
| 30. | Nawapara TPS, TRN Energy | Chhattisgarh | 600 | 74.25 | 600 | 67.89 |
| 31. | Dr.Shyama Prasad Mukherjee TPS, Korba | Chhattisgarh | 500 | 32.81 | 500 | 34.01 |
| 32. | SKS Ispat, Binjkote TPS | Chhattisgarh | 600 | 90.91 | 600 | 100.00 |

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| 33. | Gandhinagar, GSPCL | Gujarat | 630 | 258.08 | 630 | 456.51 |
| 34. | Ukai, GSPCL | Gujarat | 1110 | 82.41 | 1110 | 85.34 |
| 35. | Wanakbori, GSPCL | Gujarat | 1470 | 93.10 | 2270 | 112.92 |
| 36. | Sabarmati TPP, Torrent | Gujarat | 362 | 100.00 | 362 | 135.66 |
| 37. | GSECL, Bhavnagar TPP | Gujarat | 500 | 87.33 | 500 | 96.52 |
| 38. | OPG Power Gujarat Ltd, Bhadreshwar VPL | Gujarat | 300 | 99.12 | 300 | 80.05 |
| 39. | Mundra, Tata Power, Coastal | Gujarat | 4150 | 93.89 | 4150 | 112.76 |
| 40. | Rajeev Gandhi TPS, Hissar | Haryana | 1200 | 60.89 | 1200 | 106.96 |
| 41. | Bokaro A & B, DVC | Jharkhand | 710 | 39.48 | 710 | 156.64 |
| 42. | Tenughat Thermal Power Station | Jharkhand | 420 | 130.61 | 420 | 66.02 |
| 43. | Chandrapura, DVC | Jharkhand | 630 | 97.42 | 630 | 97.68 |
| 44. | Koderma, DVC | Jharkhand | 1000 | 99.32 | 1000 | 92.07 |
| 45. | Mahadeo Prasad STPP, Adhunik Power | Jharkhand | 540 | 85.00 | 540 | 97.77 |
| 46. | JOJOBERA T.P.CO. | Jharkhand | 427.5 | 87.93 | 427.5 | 128.35 |
| 47. | Raichur, KPCL | Karnataka | 1720 | 70.15 | 1720 | 81.71 |
| 48. | Bellari, KPCL | Karnataka | 1700 | 147.40 | 1700 | 72.17 |
| 49. | NTPC Kudgi | Karnataka | 2400 | 64.65 | 2400 | 100.45 |
| 50. | Yermarus TPP | Karnataka | 1600 | Non- operational | 1600 | 8.37 |
| 51. | Amarkantak, MPPGCL | M.P | 210 | 66.42 | 210 | 100.84 |
| 52. | Birsingpur, MPPGCL, Sanjay Gandhi TPS | M.P | 1340 | 71.96 | 1340 | 99.59 |
| 53. | Satpura, MPPGCL | M.P | 1330 | 30.43 | 1330 | 63.72 |

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| 54. | Vindhyachal, NTPC | M.P | 4760 | 32.12 | 4760 | 32.07 |
| 55. | Gadarwara STPP, NTPC | M.P | 800 | - | 800 | 0.54 |
| 56. | Khargone STPS, NTPC | M.P | 0 | - | 660 | 6.64 |
| 57. | Sasan, RPL | M.P | 3960 | 29.68 | 3960 | 52.37 |
| 58. | Mahan, Essar Power MP | M.P | 1200 | 86.42 | 1200 | 78.79 |
| 59. | Bina, J P Power | M.P | 500 | 87.99 | 500 | 87.15 |
| 60. | SHREE SINGAJI MPPGCL | M.P | 1860 | 12.17 | 2520 | 18.19 |
| 61. | Nigrie, J P Associates | M.P | 1320 | 88.62 | 1320 | 109.57 |
| 62. | JhabuaSeioni TPS | M.P | 600 | 70.24 | 600 | 83.13 |
| 63. | Trombay, Tata Power | Maharashtra | 750 | 100.00 | 750 | 98.97 |
| 64. | Khaperkheda, Mahagenco | Maharashtra | 1340 | 28.48 | 1340 | 55.96 |
| 65. | Koradi , Mahagenco | Maharashtra | 2400 | 29.19 | 2400 | 42.56 |
| 66. | Bhusawal, Mahagenco | Maharashtra | 1210 | 95.44 | 1210 | 101.12 |
| 67. | Chandrapur Super TPS, Chandrapur | Maharashtra | 2920 | 24.35 | 2920 | 21.75 |
| 68. | Paras, Mahagenco | Maharashtra | 500 | 68.76 | 500 | 112.43 |
| 69. | Sai Wardha, Warora | Maharashtra | 540 | 104.17 | 540 | 34.76 |
| 70. | JSW Ratnagiri, Nandiwade | Maharashtra | 1200 | 100.53 | 1200 | 99.49 |
| 71. | Mouda, NTPC | Maharashtra | 2320 | 90.21 | 2320 | 100.61 |
| 72. | Tirora, Adani Power | Maharashtra | 3300 | 84.45 | 3300 | 90.87 |
| 73. | TalcherKaniha, NTPC | Odisha | 3000 | 50.19 | 3000 | 67.28 |
| 74. | IB Valley, Jharsuguda (U-1,2) | Odisha | 420 | 33.86 | 420 | 66.50 |

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| 75. | IB Valley, Jharsuguda (U-3,4) | Odisha | 0 | - | 1320 | 17.34 |
| 76. | Derang , JIPL | Odisha | 1200 | 68.99 | 1200 | 65.97 |
| 77. | Ropar PPCL, Guru Gobind Singh TPS | Punjab | 840 | 313.62 | 840 | 428.06 |
| 78. | LehraMohabbat,PPCL | Punjab | 920 | 86.32 | 920 | 114.88 |
| 79. | Rajpura, Nabha Power | Punjab | 1400 | 90.70 | 1400 | 139.69 |
| 80. | Goindwal Sahib, GVK Power | Punjab | 540 | 100.00 | 540 | 79.65 |
| 81. | Kota TPS, RRVUNL | Rajasthan | 1240 | 100.03 | 1240 | 84.62 |
| 82. | Chhabra TPS, RRVUNL | Rajasthan | 1000 | 104.14 | 1000 | 81.30 |
| 83. | Chhabra SCTPP, RRVUNL | Rajasthan | 660 | 100.00 | 1320 | 33.50 |
| 84. | North-Chennai, Tangedco, NCTPS | Tamilnadu | 630 | 66.16 | 630 | 121.55 |
| 85. | North-Chennai, Tangedco, Stage -II | Tamilnadu | 1200 | 103.70 | 1200 | 97.31 |
| 86. | Mettur TPS | Tamilnadu | 840 | 81.72 | 840 | 104.05 |
| 87. | MetturExtn. Tangedco | Tamilnadu | 600 | 94.49 | 600 | 90.21 |
| 88. | Neyveli Lignite, NLC TPS-1 | Tamilnadu | 500 | 66.34 | 500 | 61.41 |
| 89. | Vallur, NTPC | Tamilnadu | 1500 | 67.53 | 1500 | 121.02 |
| 90. | Mutiara, Coastal Energy | Tamilnadu | 1200 | 100.26 | 1200 | 99.98 |
| 91. | IL&FS TPP, Cuddalore | Tamilnadu | 1200 | 99.22 | 1200 | 102.73 |
| 92. | Kothagudem O&M TPS, TSGENCO (1-4 stage) | Telangana | 720 | 41.42 | 720 | 34.43 |
| 93. | Kothagudem V Stage TPS, TSGENCO | Telangana | 500 | 19.24 | 500 | 112.63 |

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| 94. | Kothagudem VI Stage TPS, TSGENCO | Telangana | 500 | 105.34 | 500 | 100.00 |
| 95. | SINGARENI TPP | Telangana | 1200 | 102.71 | 1200 | 98.90 |
| 96. | Kakatiya. TSGENCO | Telangana | 1100 | 101.33 | 1100 | 94.31 |
| 97. | Singrauli, NTPC | Uttar Pradesh | 2000 | 35.21 | 2000 | 39.24 |
| 98. | Anpara A, B & D, UPVUNL | Uttar Pradesh | 2630 | 5.29 | 2630 | 3.90 |
| 99. | Rihand, NTPC | Uttar Pradesh | 3000 | 37.10 | 3000 | 43.18 |
| 100. | Unchahar, NTPC | Uttar Pradesh | 1550 | 117.98 | 1550 | 90.37 |
| 101. | Paricha, UPVUNL | Uttar Pradesh | 1140 | 72.20 | 1140 | 100.44 |
| 102. | Obra B, UPVUNL | Uttar Pradesh | 1000 | 11.59 | 1000 | 7.94 |
| 103. | Harduaganj, UPVUNL | Uttar Pradesh | 610 | 96.64 | 610 | 97.87 |
| 104. | Anpara C, Lanco Power | Uttar Pradesh | 1200 | 22.03 | 1200 | 22.71 |
| 105. | Prayagraj Power Generation C, Ltd | Uttar Pradesh | 1980 | 73.15 | 1980 | 90.13 |
| 106. | NTPC Meja, MUNL | Uttar Pradesh | 660 | 0.22 | 660 | 0.02 |
| 107. | Farakka, NTPC | West Bengal | 2100 | 79.03 | 2100 | 128.61 |
| 108. | Mezia, DVC | West Bengal | 2340 | 73.90 | 2340 | 70.09 |
| 109. | Durgapur Steel TPS, DVC | West Bengal | 1000 | 73.48 | 1000 | 65.72 |
| 110. | Durgapur TPS, DVC | West Bengal | 210 | 7.66 | 210 | 7.95 |
| 111. | Raghunathpur, DVC | West Bengal | 1200 | 9.76 | 1200 | 12.89 |
| 112. | Durgapur Projects Ltd. | West Bengal | 550 | 87.29 | 550 | 92.23 |

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| 113. | Santaldih, WBPDC | West Bengal | 500 | 101.25 | 500 | 100.31 |
| 114. | Sagardighi, WBPDC | West Bengal | 1600 | 186.76 | 1600 | 74.19 |
| 115. | Bakreshwar, WBPDC | West Bengal | 1050 | 116.98 | 1050 | 96.98 |
| 116. | Bandel, WBPDC | West Bengal | 335 | 89.23 | 335 | 101.83 |