

GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
RAJYA SABHA
UNSTARRED QUESTION NO. 53
TO BE ANSWERED ON DECEMBER 04, 2023
RAIL-BASED URBAN TRANSPORT SYSTEMS IN THE COUNTRY

NO. 53. DR. V. SIVADASAN:

Will the Minister of HOUSING AND URBAN AFFAIRS be pleased to state:

- (a) the number, names and details of Rail-based Urban Transport Systems in the country that were conceptualized since 2014, the details thereof, State-wise, year-wise;
- (b) the number and details of the urban rail-based transport systems that are under construction, the details thereof, State-wise, year-wise;
- (c) the number and details of the urban rail-based transport systems that have started functioning, the details thereof, State-wise, year-wise; and
- (d) whether the urban rail-based transport systems are feasible and necessary in Indian cities?

ANSWER
THE MINISTER OF STATE IN THE
MINISTRY OF HOUSING AND URBAN AFFAIRS
(SHRI KAUSHAL KISHORE)

- (a) The details of rail-based urban transport systems in the country that were conceptualized and sanctioned since 2014, State-wise and year-wise, are given in Annexure I.
- (b) The details of urban rail-based transport systems that are under construction in the country, State-wise, are given in Annexure II.
- (c) The details of the urban rail-based transport systems that have started functioning/operationalized in the country since 2014, State-wise and year-wise, are given in Annexure III.
- (d) The feasibility and necessity of urban rail based system in a city is dependent upon its size, population, employment opportunities, development work, etc. Central Government considers financial assistance to urban rail based system based on feasibility of the proposal, necessity and availability of resources, as and when posed by the concerned State/UT Government in accordance with the provisions of the Metro Rail Policy, 2017.

ANNEXURE REFERRED TO IN REPLY TO PART (a) OF THE RAJYA SABHA UNSTARRED QUESTION NO 53 FOR ANSWER ON 04.12.2023 REGARDING RAIL-BASED URBAN TRANSPORT SYSTEMS IN THE COUNTRY ASKED BY DR. V. SIVADASAN

DETAILS OF RAIL BASED URBAN TRANSPORT SYSTEMS IN THE COUNTRY THAT WERE CONCEPTUALIZED AND SANCTIONED SINCE 2014, STATE-WISE AND YEAR-WISE

| Sr No. | Year of Sanction | State/UT | Name of Project | Length (in Kms) | Sanctioned Completion Cost (in Rs Cr) |
|--------|------------------|--|---|-----------------|---------------------------------------|
| 1. | 2014 | Karnataka | Bangalore Metro Phase 2 | 72.095 | 26,405.14 |
| 2. | | Maharashtra | Nagpur Metro Phase I | 40.022 | 9,759.79 |
| 3. | | Gujarat | Ahmedabad Metro Phase I | 40.03 | 10,773.00 |
| 4. | 2015 | Maharashtra | Navi Mumbai Metro Line 1 (State initiative - implemented by CIDCO) | 11.1 | 3,063.63 |
| 5. | | | Mumbai Metro Line 2A (Dahisar (E) – D.N. Nagar) (State Initiative) | 18.6 | 6,410.00 |
| 6. | | | Mumbai Metro Line 7 (Andheri (E) – Dahisar (E)) (State Initiative) | 16.5 | 6,208.00 |
| 7. | 2016 | Tamil Nadu | Chennai Metro Phase I Extension | 9.051 | 3,770.00 |
| 8. | | Uttar Pradesh | Lucknow Metro | 22.878 | 6,928.00 |
| 9. | | Maharashtra | Pune Metro Phase I | 33.28 | 11,420.00 |
| 10. | | | Mumbai Metro Line 2B (D.N. Nagar - Mandale) (State Initiative) | 23.6 | 10,986.00 |
| 11. | | | Mumbai Metro Line 4 (Wadala - Kasarvadavali) (State Initiative) | 32.3 | 14,549.00 |
| 12. | 2017 | Delhi | Delhi Metro Extension from Najafgarh to Dhansa Bus Stand | 1.188 | 565.00 |
| 13. | | | Delhi Metro Airport Line Extension from Dwarka Sector 21 to Yashobhoomi Dwarka Sector 25 (Deposit work funded by DPIIT) | 2.008 | 942.00 |
| 14. | | Uttar Pradesh | Delhi Metro Extension from KalindiKunj to Botanica Garden | 3.962 | 997.00 |
| 15. | | | Noida Metro (Noida Sector 51 to Greater Noida Depot Station) | 29.707 | 5,503.00 |
| 16. | | Haryana | Delhi Metro Extension from Mujesar to Raja Nahar Singh Ballabhgarh | 3.205 | 580.00 |
| 17. | | Maharashtra | Mumbai Metro Line 5 (Thane-Bhiwandi-Kalyan) (State Initiative) | 24.9 | 8,417.00 |
| 18. | | | Mumbai Metro Line 6 (Swami Samarthnagar - Vikhroli) (State Initiative) | 14.5 | 6,716.00 |
| 19. | | 2018 | Madhya Pradesh | Bhopal Metro | 27.87 |
| 20. | Indore Metro | | | 31.55 | 7,500.80 |
| 21. | Uttar Pradesh | | Delhi Metro Extension from Noida City Centre to Noida Electronic City | 6.675 | 1,967.00 |
| 22. | Maharashtra | Pune Metro Line III (Public Private Partnership Mode) | 23.203 | 8,313.00 | |
| 23. | | Mumbai Metro Line 9 & 7A (Dahisar (E) – Mira Bhayander & Andheri (E) - CSMIA) (State Initiative) | 13.5 | 6,607.00 | |
| 24. | 2019 | Delhi | Delhi Metro Phase IV (03 Priority | 65.202 | 24,948.65 |

| | | | | | | |
|-----|------|-------------------------|--|--|------------|----------|
| | | | Corridors) | | | |
| 25. | | Bihar | Patna Metro Rail Project | 32.507 | 13,365.77 | |
| 26. | | Delhi and Uttar Pradesh | Delhi-Ghaziabad-Meerut RRTS | 82.15 | 30,274.00 | |
| 27. | | Uttar Pradesh | Kanpur Metro | 32.385 | 11,076.48 | |
| 28. | | | Agra Metro | 29.4 | 8,379.62 | |
| 29. | | | Delhi Metro Extension from Dilshad Garden to New Bus Adda Ghaziabad | 9.41 | 1,781.21 | |
| 30. | | Gujarat | Ahmedabad Metro Phase II | 28.254 | 5,384.17 | |
| 31. | | | Surat Metro | 40.35 | 12,020.32 | |
| 32. | | Maharashtra | Mumbai Metro Line 4A (Kasarvadavali – Gaimukh) (State Initiative) | 2.7 | 949.00 | |
| 33. | | | Mumbai Metro Line 10 (Gaimukh to ShivajiChowk) (State Initiative) | 9.21 | 4,476.00 | |
| 34. | | | Mumbai Metro Line 11 (Wada to CSMT) (State Initiative) | 12.77 | 8,739.00 | |
| 35. | | | Mumbai Metro Line 12 (Kalyan to Taloja) (State Initiative) | 20.75 | 5,865.00 | |
| 36. | | Kerala | Kochi Metro Phase IB (State initiative) | 1.2 | 448.33 | |
| 37. | | Tamil Nadu | Chennai Metro Phase II (State initiative) | 118.9 | 63,246.40 | |
| 38. | 2021 | Karnataka | Bangalore Metro Phase 2A & 2B | 58.19 | 14,788.101 | |
| 39. | 2022 | Maharashtra | Nagpur Metro Phase II | 43.80 | 6,708.00 | |
| 40. | | | Kerala | Kochi Metro Phase II | 11.2 | 1,957.05 |
| 41. | 2023 | Haryana | Millennium City Centre Gurugram to Cyber City, Gurugram with spur to Dwarka Expressway | 28.50 | 5,452.72 | |
| 42. | | | Kerala | Kochi Metro Phase IA | 2.0 | 710.92 |
| 43. | | | Maharashtra | Pune Metro Corridor 1A: Pimpri-Chinchwad (PCMC to Nigdi) | 4.413 | 910.18 |

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF THE RAJYA SABHA UNSTARRED QUESTION NO 53 FOR ANSWER ON 04.12.2023 REGARDING RAIL-BASED URBAN TRANSPORT SYSTEMS IN THE COUNTRY ASKED BY DR. V. SIVADASAN

DETAILS OF URBAN RAIL BASED TRANSPORT SYSTEMS THAT ARE UNDER CONSTRUCTION IN THE COUNTRY, STATE-WISE.

| Sr No | State/UT | Name of Project | Sanctioned Completion Cost (in Rs Cr) | Total Length (in Kms) | Under Construction Length (as on 28.11.2023) (in Kms) |
|-------|-------------------------|---|---------------------------------------|-----------------------|---|
| 1. | West Bengal | Kolkata Metro East-West Corridor (Funded by M/o Railways – 74% & M/o Housing and Urban Affairs – 26%) | 8,574.98 | 16.55 | 7.25 |
| 2. | Maharashtra | Mumbai Metro Line 3 | 23,136.00 | 33.5 | 33.5 |
| 3. | Karnataka | Bangalore Metro Phase II | 26,405.14 | 72.095 | 40.585 |
| 4. | | Ahmedabad Metro Phase I | 10,773.00 | 40.03 | 1.43 |
| 5. | Maharashtra | Pune Metro Phase I | 11,420.00 | 33.28 | 9.62 |
| 6. | | Mumbai Metro Line 2B (D.N. Nagar – Mandale) (State Initiative) | 10,986.00 | 23.6 | 23.6 |
| 7. | | Mumbai Metro Line 4 (Wadala – Kasarvadavali) (State Initiative) | 14,549.00 | 32.3 | 32.3 |
| 8. | Maharashtra | Mumbai Metro Line 5 (Thane-Bhiwandi-Kalyan) (State Initiative) | 8,417.00 | 24.9 | 24.9 |
| 9. | | Mumbai Metro Line 6 (Swami Samarthnagar – Vikhroli) (State Initiative) | 6,716.00 | 14.5 | 14.5 |
| 10. | Madhya Pradesh | Bhopal Metro | 6,941.40 | 27.87 | 27.87 |
| 11. | | Indore Metro | 7,500.80 | 31.55 | 31.55 |
| 12. | Maharashtra | Pune Metro Line III (Public Private Partnership Mode) | 8,313.00 | 23.203 | 23.203 |
| 13. | | Mumbai Metro Line 9 & 7A (Dahisar (E) – Mira Bhayander& Andheri (E) – CSMIA) (State Initiative) | 6,607.00 | 13.5 | 13.5 |
| 14. | Delhi | Delhi Metro Phase IV (03 Priority Corridors) | 24,948.65 | 65.202 | 65.202 |
| 15. | Delhi and Uttar Pradesh | Delhi-Ghaziabad-Meerut RRTS | 30,274.00 | 82.15 | 65.15 |
| 16. | Bihar | Patna Metro | 13,365.77 | 32.507 | 32.507 |
| 17. | Gujarat | Ahmedabad Metro Phase II | 5,384.17 | 28.254 | 28.254 |
| 18. | | Surat Metro | 12,020.32 | 40.35 | 40.35 |
| 19. | Uttar Pradesh | Kanpur Metro | 11,076.48 | 32.385 | 23.657 |
| 20. | | Agra Metro | 8,379.62 | 29.4 | 29.4 |
| 21. | Maharashtra | Mumbai Metro Line 4A (Kasarvadavali – Gaimukh) (State Initiative) | 949.00 | 2.7 | 2.7 |
| 22. | | Mumbai Metro Line 10 (Gaimukh to ShivajiChowk) (State Initiative) | 4,476.00 | 9.21 | 9.21 |
| 23. | | Mumbai Metro Line 12 (Kalyan to Taloja) (State Initiative) | 5,865.00 | 20.75 | 20.75 |

| | | Initiative) | | | |
|-----|-------------|---|------------|-------|-------|
| 24. | Tamil Nadu | Chennai Metro Phase II (State initiative) | 63,246.40 | 118.9 | 118.9 |
| 25. | Kerala | Kochi Metro Phase IB (State initiative) | 448.33 | 1.2 | 1.2 |
| 26. | Karnataka | Bangalore Metro Phase 2A & 2B | 14,788.101 | 58.19 | 58.19 |
| 27. | Maharashtra | Nagpur Metro Phase II | 6,708.00 | 43.80 | 43.80 |
| 28. | Kerala | Kochi Metro Phase II | 1,957.05 | 11.2 | 11.2 |
| 29. | Haryana | Millennium City Centre Gurugram to Cyber City, Gurugram with Spur to Dwarka Expressway | 5,452.72 | 28.50 | 28.50 |
| 30. | Maharashtra | Pune Metro Corridor 1A: Pimpri-Chinchwad (PCMC to Nigdi) | 910.18 | 4.413 | 4.413 |

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF THE RAJYA SABHA UNSTARRED QUESTION NO 53 FOR ANSWER ON 04.12.2023 REGARDING RAIL-BASED URBAN TRANSPORT SYSTEMS IN THE COUNTRY ASKED BY DR. V. SIVADASAN

DETAILS OF THE URBAN RAIL BASED TRANSPORT SYSTEMS THAT HAVE STARTED FUNCTIONING/OPERATIONALIZED IN THE COUNTRY SINCE 2014, STATE-WISE AND YEAR-WISE

| Sr No. | Year | State/UT | Name of Metro Rail Corporation and Length operationalized (in Kms) |
|--------|---------------|----------------------------------|---|
| 1. | 2014 | Delhi | Delhi Metro – 3.23 |
| 2. | | Karnataka | Bangalore Metro – 10.3 |
| 3. | | Maharashtra | Mumbai Metro One Private Ltd (PPP Mode) – 11.4 |
| 4. | | | Mumbai Monorail (State initiative) – 8.3 |
| 5. | 2015 | Delhi & Haryana | Delhi Metro – 19.34 |
| 6. | | Karnataka | Bangalore Metro – 9 |
| 7. | | Tamil Nadu | Chennai Metro – 10.21 |
| 8. | | Rajasthan | Jaipur Metro (State initiative) – 9.6 |
| 9. | 2016 | Karnataka | Bangalore Metro – 4.8 |
| 10. | | Tamil Nadu | Chennai Metro – 10.21 |
| 11. | 2017 | Delhi & Uttar Pradesh | Delhi Metro – 17.91 |
| 12. | | Tamil Nadu | Chennai Metro – 7.36 |
| 13. | | Karnataka | Bangalore Metro – 11.5 |
| 14. | | Telangana | Hyderabad Metro (PPP Mode) – 30 |
| 15. | | Kerala | Kochi Metro – 18.3 |
| 16. | | Uttar Pradesh | Uttar Pradesh Metro (Lucknow) – 8.5 |
| 17. | | Haryana | Rapid Metro, Gurugram (Private initiative – now taken over by DMRC) – 7 |
| 18. | 2018 | Delhi & Haryana | Delhi Metro – 96.43 |
| 19. | | Tamil Nadu | Chennai Metro – 7.4 |
| 20. | | Telangana | Hyderabad Metro (PPP Mode) – 16 |
| 21. | 2019 | Delhi & Uttar Pradesh | Delhi Metro – 20.6 |
| 22. | | Tamil Nadu | Chennai Metro – 10 |
| 23. | | Telangana | Hyderabad Metro (PPP Mode) – 12 |
| 24. | | Kerala | Kochi Metro – 5.65 |
| 25. | | Uttar Pradesh | Uttar Pradesh Metro (Lucknow) – 14.38 |
| 26. | | | Noida Metro – 29.7 |
| 27. | | Maharashtra | Mumbai Monorail (State initiative) – 11.2 |
| 28. | | | Maharashtra Metro (Nagpur) – 13.5 |
| 29. | | Gujarat | Gujarat Metro (Ahmedabad) – 6.5 |
| 30. | 2020 | West Bengal | Kolkata Metro Rail Corporation Limited – 6.97 |
| 31. | | Telangana | Hyderabad Metro (PPP Mode) – 11 |
| 32. | | Kerala | Kochi Metro – 1.33 |
| 33. | | Rajasthan | Jaipur Metro (State initiative) – 2.4 |
| 34. | | Maharashtra | Maharashtra Metro (Nagpur) – 11 |
| 35. | 2021 | West Bengal | Metro Railway, Kolkata (under M/o Railways) – 4.1 |
| 36. | | Delhi | Delhi Metro – 2.03 |
| 37. | | Karnataka | Bangalore Metro – 13.65 |
| 38. | | Tamil Nadu | Chennai Metro – 9.05 |
| 39. | | Maharashtra | Maharashtra Metro (Nagpur) – 1.6 |
| 40. | Uttar Pradesh | Uttar Pradesh Metro (Kanpur) – 9 | |
| 41. | 2022 | West Bengal | Metro Railway, Kolkata (under M/o Railways) – 6.5 |
| 42. | | | Kolkata Metro Rail Corporation Limited – 2.33 |
| 43. | | Kerala | Kochi Metro – 2 |
| 44. | | Gujarat | Gujarat Metro (Ahmedabad) – 32.07 |
| 45. | | Maharashtra | Maharashtra Metro (Nagpur) – 13.72 |

| | | | |
|-----|------------------------------|---------------|--|
| 46. | | | Maharashtra Metro (Pune) – 12 |
| 47. | | | Mumbai Metro Line 2A (State initiative) – 9.83 |
| 48. | | | Mumbai Metro Line 7 (State initiative) – 10.7 |
| 49. | 2023 (till 28.11.2023) | Delhi | Delhi Metro – 2.01 |
| 50. | | Karnataka | Bangalore Metro - 17.86 |
| 51. | | Maharashtra | Maharashtra Metro (Pune) – 11.61 |
| 52. | | | Mumbai Metro Line 2A (State initiative) – 8.8 |
| 53. | | | Mumbai Metro Line 7 (State initiative) – 5.8 |
| 54. | | | Navi Mumbai Metro Line 1 (State initiative) – 11.1 |
| 55. | | Uttar Pradesh | National Capital Region Transport Corporation (Delhi-Meerut RRTS) – 17 |