

**GOVERNMENT OF INDIA
MINISTRY OF HOUSING AND URBAN AFFAIRS
LOK SABHA
UNSTARRED QUESTION NO. 1992
TO BE ANSWERED ON DECEMBER 14, 2023
METRO RAIL SYSTEM**

**NO. 1992. SHRI RAJ KUMAR CHAHAR:
DR. SANGHMITRA MAURYA:
SHRI GYANESHWAR PATIL:**

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

- (a) the details of the extension of Metro Rail System and its technological progress in the country during the last nine years; and**
- (b) the role played by the said changes in improving the urban transportation, particularly in Madhya Pradesh?**

ANSWER

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

(a) to (b) - The details of metro projects operationalised in last 9 years are as per Annexure-I.

The details of metro projects which have been approved by Central Government as 50:50 Joint Venture (JV) projects with State Government in last 9 years are, as per Annexure II.

A number of technological progress have taken place during the last nine years in various Metro Rail operational in the country. Some of the technological progress are:

- (i) Introduction of Namo Bharat Train- India's first State of Art Namo Bharat train with design speed of 180 kmph and operational speed of 160 kmph has been introduced on priority section between Sahibabad to Duhai Depot on Delhi- Meerut RRTS corridor;**
- (ii) European Train Control System(ETCS) – World's first State of Art ETCS level II with Hybrid level-III radio based train signalling system on LTE backbone has been introduced on Namo Bharat trains running on priority corridor of Delhi- Meerut RRTS enhancing passenger safety to a new level.**
- (iii) Platform Screen Door(PSD) - For improved safety and to reduce the risk of accidents, PSD has been jointly developed by Bharat Electronics Limited (BEL) with National Capital Region Transport Corporation (NCRTC);**
- (iv) National Common Mobility Card(NCMC) – One Nation-One card i.e. NCMC work on all NCMC enabled transport systems in the country;**
- (v) QR based Ticketing – QR based ticketing system has facilitated booking of tickets from Mobile based apps;**

- (vi) Unmanned Train Operations (UTO) – For improved efficiency and quality of service including better utilisation of resources, UTO is functional in certain stretches of Delhi Metro Rail Corporation;**
- (vii) Indigenous Automatic Train Supervision system (i-ATS) – India's first Indigenously built Automatic Train Supervision System developed by the combined efforts of DMRC and Bharat Electronics Limited (BEL) has been implemented on Red Line of Delhi Metro.**

The expansion of metro rail system and technological progress have improved urban transportation drastically which is evident from the ridership which has increased from 28 lakhs in 2014 to about 1 crore per day at present.

The Metro Rail Projects sanctioned by Govt. of India in the State of Madhya Pradesh for Bhopal and Indore cities are currently under construction.

ANNEXURE I

ANNEXURE REFERRED TO IN REPLY TO POINT (a) & (b) OF THE LOK SABHA UNSTARRED QUESTION NO 1992 FOR ANSWER ON 14.12.2023 REGARDING METRO NETWORK ASKED BY SHRI RAJ KUMAR CHAHAR, DR. SANGHMITRA MAURYA AND SHRI GYANESHWAR PATIL:

DETAILS OF EXTENSION OF METRO RAIL SYSTEM IN THE COUNTRY DURING THE LAST NINE YEARS:

| Sr No | City | Metro system length extended during the last 9 years in the country as on 30.11.2023 |
|--------------|--|---|
| 1 | Delhi & NCR | 198 |
| 2 | Bangalore | 57 |
| 3 | Mumbai | 68 |
| 4 | Kolkata | 20 |
| 5 | Hyderabad | 69 |
| 6 | Chennai | 54 |
| 7 | Jaipur | 12 |
| 8 | Kochi | 27 |
| 9 | Lucknow | 23 |
| 10 | Nagpur | 40 |
| 11 | Ahmedabad | 39 |
| 12 | Pune | 24 |
| 13 | Kanpur | 9 |
| 14 | Ghaziabad (Delhi-Ghaziabad-Meerut RRTS) | 17 |
| | Total | 657 |

ANNEXURE REFERRED TO IN REPLY TO POINT (a) & (b) OF THE LOK SABHA UNSTARRED QUESTION NO. 1992 FOR ANSWER ON 14.12.2023 REGARDING METRO NETWORK ASKED BY SHRI RAJ KUMAR CHAHAR, DR. SANGHMITRA MAURYA AND SHRI GYANESHWAR PATIL:

DETAILS OF METRO RAIL PROJECTS APPROVED BY CENTRAL GOVERNMENT IN LAST 9 YEARS AS 50:50 JOINT VENTURE PROJECTS:

METRO PROJECTS SANCTIONED

| SL No | City | Name of Metro Project | Length in Kms | Month of Sanction |
|--------------|--------------------------|--|----------------------|--------------------------|
| 1. | Nagpur | Nagpur Metro Rail Project | 40.022 | August-2014 |
| 2. | | Nagpur Metro Phase II | 43.8 | December-2022 |
| 3. | Ahmedabad | Ahmedabad Metro Rail Project | 40.03 | November-2014 |
| 4. | | Ahmedabad Metro Rail Project Phase II | 28.254 | February - 2019 |
| 5. | Lucknow | Lucknow Metro Rail Project Phase 1A | 22.88 | January - 2016 |
| 6. | Chennai | Extn. of Chennai Metro Phase-I | 9.05 | June-2016 |
| 7. | Pune | Pune Metro Rail Project Phase 1 | 33.283 | December-2016 |
| 8. | Delhi/NCR | Delhi Metro Extension from YMCA chowk (Mujesar) Faridabad to Ballabhgarh | 3.205 | March- 2017 |
| 9. | | Delhi Metro Extn from NAJAFGARH-DHANSA | 1.18 | May- 2017 |
| 10. | | Delhi Metro Extn from Kalindi Kunj to Botanical Garden | 3.962 | December - 2017 |
| 11. | | Delhi Metro Extn from Noida City Centre to Noida Sector 62 | 6.675 | May - 2018 |
| 12. | | Noida - Greater Noida | 29.707 | June - 2017 |
| 13. | | Delhi Metro Extn From Dilshad Garden to New Bus stand Ghaziabad | 9.4 | January - 2019 |
| 14. | | Delhi Phase IV - 03 Priority Corridors | 65.2 | March - 2019 |
| 15. | | Delhi Metro Extension from Dwarka Sector 21 to IICC Extension | 2.03 | May - 2017 |
| 16. | | Millenium City Centre to Cyber City Gurugram with spur to Dwarka Expressway | 28.5 | July - 2023 |
| 17. | Delhi, Ghaziabad, | Delhi Meerut RRTS | 82.15 | February - 2019 |

| | | | | |
|------------|------------------|---|---------------|----------------------------|
| | Meerut | | | |
| 18. | Bhopal | Bhopal Metro Rail Project | 27.87 | October - 2018 |
| 19. | Indore | Indore Metro Rail Project | 31.55 | October - 2018 |
| 20. | Patna | Patna Metro Rail Project | 32.507 | February - 2019 |
| 21. | Agra | Agra Metro Rail Project | 29.4 | February - 2019 |
| 22. | Kanpur | Kanpur Metro Rail Project | 32.385 | February - 2019 |
| 23. | Surat | Surat Metro Rail Project | 40.35 | March - 2019 |
| 24. | Bangalore | Bangalore Metro Rail Project Phase 2A & 2B | 58.19 | June - 2021 |
| 25. | Kochi | Kochi Metro Phase II | 11.2 | September- 2022 |