

**GOVERNMENT OF INDIA**  
**MINISTRY OF HOUSING AND URBAN AFFAIRS**  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 790**  
**TO BE ANSWERED ON DECEMBER 07, 2023**  
**METRO NETWORK**

**NO. 790 SHRI PRATHAP SIMHA:**

**SHRI L.S. TEJASVI SURYA:**

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

- (a) the details and the number of cities with a working and an under-construction metro network in the country;**
- (b) the financial assistance provided so far by the Union Government and the State Government for the metro construction in Bengaluru so far for each corridor;**
- (c) the details of noteworthy expansion of the metro system length and technological advancements in the country during the last nine years, city-wise;**
- (d) the manner in which these changes played a role in improving urban transportation; and**
- (e) the extensions proposed in each of the cities and the status of their approvals?**

**ANSWER**

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

- (a) At present, Metro Rail/Regional Rapid Transit System (RRTS) network is operational in 20 cities across the country namely Delhi & 7 NCR cities (Gurugram, Noida, Greater Noida, Ghaziabad,**

Faridabad, Bahadurgarh, Ballabgarh), Bangalore, Hyderabad, Kolkata, Chennai, Jaipur, Kochi, Lucknow, Mumbai, Ahmadabad, Nagpur, Kanpur and Pune. Metro Rail/RRTS network is under construction in 19 cities across the country namely Delhi, Gurugram, Ghaziabad, Bangalore, Kolkata, Chennai, Kochi, Mumbai, Nagpur, Ahmedabad, Gandhinagar, Pune, Kanpur, Agra, Bhopal, Indore, Patna, Surat and Meerut.

(b) Financial assistance provided so far by the Union Government and the State Government for metro construction in Bengaluru is as under:

<b>Particulars</b>	<b>Financial assistance provided till 28.11.2023 in the form of Equity, Subordinate Debt, Pass Through Assistance (PTA) etc. ( ` in Cr)</b>		
	<b>Phase 1</b>	<b>Phase 2</b>	<b>Phase 2A &amp; 2B</b>
<b>Government of India (Gol)</b>	<b>7,154.61</b>	<b>13,245.95</b>	<b>4,568.15</b>
<b>Government of Karnataka</b>	<b>5,923.26</b>	<b>12,663.63</b>	<b>5,577.89</b>

(c) to (e) The details of metro project operationalised in last 9 years are as per Annexure-I.

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

A number of technological advancements have taken place during the last nine years in various Metro Rail operational in the country. Some of the noteworthy technological advancements 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.**

**These technological advancements 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.**

**ANNEXURE I**

**ANNEXURE REFERRED TO IN REPLY TO PART (c) to (e) OF THE LOK SABHA UNSTARRED QUESTION NO 790 FOR ANSWER ON 07.12.2023 REGARDING METRO NETWORK ASKED BY SHRI PRATHAP SIMHA AND SHRI L.S. TEJASVI SURYA:**

**DETAILS OF EXPANSION OF METRO SYSTEM IN THE COUNTRY DURING THE LAST NINE YEARS, CITY-WISE**

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

**ANNEXURE II**

**ANNEXURE REFERRED TO IN REPLY TO PART (c) to (e) OF THE LOK SABHA UNSTARRED QUESTION NO. 790 FOR ANSWER ON 07.12.2023 REGARDING METRO NETWORK ASKED BY SHRI PRATHAP SIMHA AND SHRI L.S. TEJASVI SURYA:**

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

**METRO PROJECTS SANCTIONED**

<b>SL No</b>	<b>City</b>	<b>Name of Metro Project</b>	<b>Length in Kms</b>	<b>Month of Sanction</b>
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 Ballabgarh	3.205	March- 2017
9.		Delhi Metro Extn from NAJAFGARH-DHANSA	1.18	May, 2017
10.		Delhi Metro Extn from KalindiKunj 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	28.5	July - 2023

		<b>Cyber City Gurugram with spur to Dwarka Expressway</b>		
<b>17.</b>	<b>Delhi, Ghaziabad, Meerut</b>	<b>Delhi Meerut RRTS</b>	<b>82.15</b>	<b>February - 2019</b>
<b>18.</b>	<b>Bhopal</b>	<b>Bhopal Metro Rail Project</b>	<b>27.87</b>	<b>October - 2018</b>
<b>19.</b>	<b>Indore</b>	<b>Indore Metro Rail Project</b>	<b>31.55</b>	<b>October - 2018</b>
<b>20.</b>	<b>Patna</b>	<b>Patna Metro Rail Project</b>	<b>32.507</b>	<b>February - 2019</b>
<b>21.</b>	<b>Agra</b>	<b>Agra Metro Rail Project</b>	<b>29.4</b>	<b>February - 2019</b>
<b>22.</b>	<b>Kanpur</b>	<b>Kanpur Metro Rail Project</b>	<b>32.385</b>	<b>February - 2019</b>
<b>23.</b>	<b>Surat</b>	<b>Surat Metro Rail Project</b>	<b>40.35</b>	<b>March - 2019</b>
<b>24.</b>	<b>Bangalore</b>	<b>Bangalore Metro Rail Project Phase 2A &amp; 2B</b>	<b>58.19</b>	<b>June - 2021</b>
<b>25.</b>	<b>Kochi</b>	<b>Kochi Metro Phase II</b>	<b>11.2</b>	<b>September-2022</b>

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