

**GOVERNMENT OF INDIA
MINISTRY OF COMMUNICATIONS
DEPARTMENT OF TELECOMMUNICATIONS**

**LOK SABHA
UNSTARRED QUESTION NO. 4646
TO BE ANSWERED ON 29TH MARCH, 2023**

BENCHMARKS FOR 5G SERVICES

**4646. SHRI SHRIRANG APPA BARNE:
SHRI PRATAPRAO JADHAV:
SHRI DHAIRYASHEEL SAMBHAJIRAO MANE:
SHRI SUDHEER GUPTA:
SHRI BIDYUT BARAN MAHATO:**

Will the Minister of COMMUNICATIONS be pleased to state:

- (a) whether the Government has held any meeting with the telecom companies to discuss measures and action plan for improving service quality, review of norms and benchmarks for 5G services, particularly in tier-II cities of the country;
- (b) if so, the details thereof along with the steps taken in this regard;
- (c) the details of the total number of cities in the country in which 5G services has been launched till now, city-wise;
- (d) whether infrastructural and the technological capabilities required for launching 5G technology exist in the rural and remote areas of the country;
- (e) if so, the details thereof and if not, the reasons therefor along with the steps taken by the Government to ensure the same; and
- (f) the details of the total population covered under 5G facility in the country and the time by which all the cities will be covered under it?

ANSWER

**MINISTER OF STATE FOR COMMUNICATIONS
(SHRI DEVUSINH CHAUHAN)**

(a) & (b) Department of Telecommunications (DoT) held a meeting on 28.12.2022 with all Telecom Service Providers (TSPs) to discuss Quality of Services (QoS) related matters. They were intimated about several policy initiatives taken by DoT for Telecom infrastructure growth in the country. TSPs have been directed to put all out efforts to further improve the QoS in the Telecom Sector.

For improving and streamlining the 5G network in the country, the Government has taken following policy initiatives:

- i. Additional spectrum has been made available.
- ii. Spectrum sharing, trading, leasing and surrender have been permitted as per extant Notice Inviting Application (NIA) terms & conditions and guidelines issued from time to time.
- iii. Procedure for Standing Advisory Committee on Radio Frequency Allocation (SACFA) siting clearance for Low Power BTSs/ small cells ,i.e, Micro, Pico and Femto cells on existing street furniture/infrastructure, has been simplified.
- iv. To facilitate faster and easier deployment of Telecom infrastructure, Government has amended the Indian Telegraph Right of Way Rules (RoW), 2016 on 17th August 2022. These amendments pave the way for deployment of 5G small cells and Optical Fibre Cable (OFC) on existing street infrastructure and also rationalize the fees and charges paid by the Telecom Licensees for the RoW permissions.
- v. GatiShakti Sanchar portal has been launched to facilitate and expedite RoW permissions, by providing a single interface between all stakeholders including Central and State/UT Government(s), Local bodies and Service Providers.

(c) to (f) 5G services have been rolled out in 500 Cities/Towns distributed across all Licensed Service Areas (LSAs). The list of the Cities/Towns is shown at Annexure.

As per the Notice Inviting Application (NIA) dated 15-06-2022 for auction of spectrum and the license conditions, the rollout obligations are required to be met over a period of five years, in a phased manner, from the date of allocation of spectrum. Further expansion of mobile networks beyond the mandatory rollout obligations, depends on the techno-commercial consideration of the TSPs.

Annexure

Annexure referred to in reply of para (c) to (f) of Lok Sabha Unstarred Question No. 4646 to be answered on 29th March, 2023 raised by Hon'ble Members of Parliament Shri Shrirang Appa Barne, Shri Prataprao Jadhav, Shri Dhairyasheel Sambhajirao Mane, Shri Sudheer Gupta and Shri Bidyut Baran Mahato, Regarding "Benchmarks For 5G Services".

S.No.	State	City
1	Andhra Pradesh	Adoni
2	Andhra Pradesh	Amalapuram
3	Andhra Pradesh	Anakapalle
4	Andhra Pradesh	Anantapur
5	Andhra Pradesh	Badvel
6	Andhra Pradesh	Bheemavaram
7	Andhra Pradesh	Chilakaluripet
8	Andhra Pradesh	Chirala
9	Andhra Pradesh	Chittoor
10	Andhra Pradesh	Cuddapah
11	Andhra Pradesh	Dharmavaram
12	Andhra Pradesh	Eluru
13	Andhra Pradesh	Gudivada
14	Andhra Pradesh	Guntakal
15	Andhra Pradesh	Guntur
16	Andhra Pradesh	Hindupur
17	Andhra Pradesh	Kadiri
18	Andhra Pradesh	Kakinada
19	Andhra Pradesh	Kavali
20	Andhra Pradesh	Kurnool
21	Andhra Pradesh	Machilipatnam
22	Andhra Pradesh	Madanapalle
23	Andhra Pradesh	Nandyal
24	Andhra Pradesh	Narasaraopet
25	Andhra Pradesh	Narsapur
26	Andhra Pradesh	Nellore
27	Andhra Pradesh	Ongole
28	Andhra Pradesh	Proddatur
29	Andhra Pradesh	Rajahmundry
30	Andhra Pradesh	Rayachoti
31	Andhra Pradesh	Srikakulam
32	Andhra Pradesh	Srikalahasti
33	Andhra Pradesh	Tadepalligudem
34	Andhra Pradesh	Tadpatri
35	Andhra Pradesh	Tanuku
36	Andhra Pradesh	Tenali
37	Andhra Pradesh	Tirumala
38	Andhra Pradesh	Tirupati

S.No.	State	City
39	Andhra Pradesh	Tuni
40	Andhra Pradesh	Vijayawada
41	Andhra Pradesh	Vinukonda
42	Andhra Pradesh	Visakhapatnam
43	Andhra Pradesh	Vizianagaram
44	arunachal pradesh	Itanagar
45	Assam	Bongaigaon
46	Assam	Dibrugarh
47	Assam	Guwahati
48	Assam	Jorhat
49	Assam	Nagaon
50	Assam	North Lakhimpur
51	Assam	Sibsagar
52	Assam	Silchar
53	Assam	Tezpur
54	Assam	Tinsukia
55	Bihar	Arrah
56	Bihar	Begusarai
57	Bihar	Bhagalpur
58	Bihar	Bihar Sharif
59	Bihar	Darbhanga
60	Bihar	Gaya
61	Bihar	Katihar
62	Bihar	Muzaffarpur
63	Bihar	Patna
64	Bihar	Purnia
65	Bihar	Araria
66	Bihar	Barh
67	Bihar	Bettiah
68	Bihar	Bihta
69	Bihar	Bodhgaya
70	Bihar	Fatwah
71	Bihar	Forbesganj
72	Bihar	Gopalganj
73	Bihar	Jamui
74	Bihar	Jehanabad
75	Bihar	Khagaria

S.No.	State	City
76	Bihar	Kishanganj
77	Bihar	Lakhisarai
78	Bihar	Madhepura
79	Bihar	Motihari
80	Bihar	Newada
81	Bihar	Saharsa
82	Bihar	Siwan
83	Bihar	Sonepur
84	Bihar	Sultanganj
85	Chhattisgarh	Ambikapur
86	Chhattisgarh	Bhatapara
87	Chhattisgarh	Bhilainagar
88	Chhattisgarh	Bilaspur - C
89	Chhattisgarh	Dhamtari
90	Chhattisgarh	Durg
91	Chhattisgarh	Jagdalspur
92	Chhattisgarh	Korba
93	Chhattisgarh	Raigarh
94	Chhattisgarh	Raipur
95	Chhattisgarh	Rajnandgaon
96	Delhi	Delhi
97	Goa	Margao
98	Goa	Mormugoa
99	Goa	Panaji
100	Gujarat	Ahmedabad
101	Gujarat	Ahwa
102	Gujarat	Amreli
103	Gujarat	Anand
104	Gujarat	Anklesvar
105	Gujarat	Bharuch
106	Gujarat	Bhavnagar
107	Gujarat	Bhuj
108	Gujarat	Botad
109	Gujarat	Chhota Udaipur
110	Gujarat	Diu
111	Gujarat	Dohad
112	Gujarat	Gandhidham
113	Gujarat	Gandhinagar
114	Gujarat	Godhra
115	Gujarat	Himatnagar
116	Gujarat	Jamnagar
117	Gujarat	Junagadh
118	Gujarat	Kalol
119	Gujarat	Khambhalia
120	Gujarat	Lunavada
121	Gujarat	Mahesana

S.No.	State	City
122	Gujarat	Modasa
123	Gujarat	Morvi
124	Gujarat	Nadiad
125	Gujarat	Navsari
126	Gujarat	Palanpur
127	Gujarat	Patan
128	Gujarat	Porbandar
129	Gujarat	Rajkot
130	Gujarat	Rajpipla
131	Gujarat	Savarkundla
132	Gujarat	Surat
133	Gujarat	Vadodara
134	Gujarat	Valsad
135	Gujarat	Vapi
136	Gujarat	Veraval
137	Gujarat	Vyara
138	Gujarat	Wadhwan
139	Gujarat	Dahej
140	Gujarat	Kadodara
141	Gujarat	Mundra
142	Gujarat	Surendrana
143	Haryana	Ambala UA
144	Haryana	Bahadurgarh
145	Haryana	Bhiwani
146	Haryana	Faridabad
147	Haryana	Fatehabad
148	Haryana	Gohana
149	Haryana	Gurugram
150	Haryana	Hansi
151	Haryana	Hisar
152	Haryana	Jind
153	Haryana	Kaithal
154	Haryana	Karnal
155	Haryana	Narnaul
156	Haryana	Palwal
157	Haryana	Panchkula
158	Haryana	Panipat
159	Haryana	Rewari
160	Haryana	Rohtak
161	Haryana	Sirsa
162	Haryana	Sonapat
163	Haryana	Thanesar
164	Haryana	Yamunanagar
165	Himachal Pradesh	Baddi- Barotiwala- Nalagarh

S.No.	State	City
166	Himachal Pradesh	Bilaspur - H
167	Himachal Pradesh	Dharamshala
168	Himachal Pradesh	Hamirpur
169	Himachal Pradesh	Kangra
170	Himachal Pradesh	Nadaun
171	Himachal Pradesh	Paonta Sahib
172	Himachal Pradesh	Shimla
173	Himachal Pradesh	Kullu
174	Himachal Pradesh	Manali
175	Himachal Pradesh	Mandi
176	Himachal Pradesh	Palampur
177	Himachal Pradesh	Solan
178	Jammu & Kashmir	anantnag
179	Jammu & Kashmir	baramulla
180	Jammu & Kashmir	Jammu
181	Jammu & Kashmir	Kathua
182	Jammu & Kashmir	Katra
183	Jammu & Kashmir	Rajouri
184	Jammu & Kashmir	Sopore
185	Jammu & Kashmir	srinagar
186	Jammu & Kashmir	Akhnoor
187	Jammu & Kashmir	Khour
188	Jammu & Kashmir	Kupwara

S.No.	State	City
189	Jammu & Kashmir	Lakhanpur
190	Jammu & Kashmir	Samba
191	Jammu & Kashmir	Udhampur
192	Jharkhand	Bokaro Steel City
193	Jharkhand	Deoghar
194	Jharkhand	Dhanbad
195	Jharkhand	Dumka
196	Jharkhand	Hazaribag
197	Jharkhand	Jamshedpur
198	Jharkhand	Katras
199	Jharkhand	Ranchi
200	Karnataka	Bagalkot
201	Karnataka	Bangalore
202	Karnataka	Belgaum
203	Karnataka	Bellary
204	Karnataka	Bhadravati-KA
205	Karnataka	Bidar
206	Karnataka	Bijapur
207	Karnataka	Chikmagalur
208	Karnataka	Chintamani
209	Karnataka	Chitradurga
210	Karnataka	Davanagere
211	Karnataka	Dharwad
212	Karnataka	Dod Ballapur
213	Karnataka	Gadag-Betigeri
214	Karnataka	Gulbarga
215	Karnataka	Hassan
216	Karnataka	Haveri
217	Karnataka	Hospet
218	Karnataka	Hubli
219	Karnataka	Karwar
220	Karnataka	Kolar
221	Karnataka	Mandya
222	Karnataka	Mangalore
223	Karnataka	Manipur
224	Karnataka	Mysore
225	Karnataka	Raichur
226	Karnataka	Ramanagaram
227	Karnataka	Ranibennur
228	Karnataka	Robertson Pet
229	Karnataka	Shimoga
230	Karnataka	Tumkur
231	Karnataka	Udupi
232	Kerala	Alappuzha

S.No.	State	City
233	Kerala	Attingal
234	Kerala	Changanassery
235	Kerala	Cherthala
236	Kerala	Guruvayoor
237	Kerala	Kanhangad
238	Kerala	Kannur
239	Kerala	Kochi
240	Kerala	Kodungallur
241	Kerala	Kollam
242	Kerala	Kottayam
243	Kerala	Kozhikode
244	Kerala	Malappuram
245	Kerala	Muvattupuzha
246	Kerala	Nedumangad
247	Kerala	Palakkad
248	Kerala	Taliparamba
249	Kerala	Tellicheri
250	Kerala	Thiruvalla
251	Kerala	Thrissur
252	Kerala	Trivandrum
253	Kerala	Cheruvannur
254	Kerala	Edathala
255	Kerala	Kalamassery
256	Kerala	Kayamkulam
257	Kerala	Ponnani
258	Kerala	Thrippunithura
259	Kerala	Tirur
260	Kerala	Tirurangadi
261	Kerala	Vazhakkala
262	Kerala	Vengara
263	Madhya Pradesh	Betul
264	Madhya Pradesh	Bhopal
265	Madhya Pradesh	Chhindwara
266	Madhya Pradesh	Dewas
267	Madhya Pradesh	Gwalior
268	Madhya Pradesh	Indore
269	Madhya Pradesh	Jabalpur
270	Madhya Pradesh	Murwara (Katni)
271	Madhya Pradesh	Ratlam
272	Madhya Pradesh	Rewa
273	Madhya Pradesh	Sagar-MP
274	Madhya Pradesh	Satna
275	Madhya Pradesh	Ujjain
276	Madhya Pradesh	Vidisha
277	Madhya Pradesh	Chhatarpur
278	Madhya Pradesh	Mhow

S.No.	State	City
279	Maharashtra	Ahmadnagar
280	Maharashtra	Akola
281	Maharashtra	Amravati
282	Maharashtra	Aurangabad-MH
283	Maharashtra	Bhandara
284	Maharashtra	Bid
285	Maharashtra	Chakan
286	Maharashtra	Chandrapur
287	Maharashtra	Dhule
288	Maharashtra	Ichalkaranji
289	Maharashtra	Jalgaon
290	Maharashtra	Jalna
291	Maharashtra	Kolhapur
292	Maharashtra	Latur
293	Maharashtra	Malegaon
294	Maharashtra	Nagpur
295	Maharashtra	Nanded-Waghala
296	Maharashtra	Nashik
297	Maharashtra	Parbhani
298	Maharashtra	Pune
299	Maharashtra	Sangli
300	Maharashtra	Satara
301	Maharashtra	Solapur
302	Maharashtra	Wardha
303	Maharashtra	Achalpur
304	Maharashtra	Buldana
305	Maharashtra	Khamgaon
306	Maharashtra	Sinnar
307	Maharashtra	Thane
308	Maharashtra	Udgir
309	Maharashtra	Yavatmal
310	Manipur	Imphal
311	Manipur	Thoubal
312	Manipur	Churachandpur
313	Meghalaya	Shillong
314	Meghalaya	Tura
315	Mizoram	Aizawl
316	Mizoram	Lunglei
317	Mumbai	Mumbai
318	Nagaland	Dimapur
319	Nagaland	Kohima
320	Odisha	Balangir
321	Odisha	Baleswar
322	Odisha	Baripada
323	Odisha	Bhadrak
324	Odisha	Bhawanipatna

S.No.	State	City
325	Odisha	Bhubaneswar
326	Odisha	Brahmapur
327	Odisha	Cuttack
328	Odisha	Jajpore Road
329	Odisha	Jatani
330	Odisha	Jharsuguda
331	Odisha	Khurda
332	Odisha	Nalco
333	Odisha	Puri
334	Odisha	Raurkela
335	Odisha	Rayagada
336	Odisha	Sambalpur
337	Odisha	Sundargarh
338	Odisha	Talcher
339	Odisha	Anugul
340	Odisha	Balasore
341	Odisha	Bargarh
342	Odisha	Dhenkanal
343	Odisha	Kendrapada
344	Odisha	Paradeep
345	Punjab	Amritsar
346	Punjab	Bhatinda
347	Punjab	Chandigarh
348	Punjab	Derabassi
349	Punjab	Hoshiarpur
350	Punjab	Jalandhar
351	Punjab	Khanna
352	Punjab	Kharar
353	Punjab	Ludhiana
354	Punjab	Mohali
355	Punjab	Pathankot
356	Punjab	Patiala
357	Punjab	Phagwara
358	Punjab	Zirakpur
359	Rajasthan	Ajmer
360	Rajasthan	Alwar
361	Rajasthan	Bhilwara
362	Rajasthan	Bikaner
363	Rajasthan	Ganganagar
364	Rajasthan	Jaipur
365	Rajasthan	Jodhpur
366	Rajasthan	Kota
367	Rajasthan	Nathdwara
368	Rajasthan	Sikar
369	Rajasthan	Tonk
370	Rajasthan	Udaipur

S.No.	State	City
371	Rajasthan	Bhiwadi
372	Rajasthan	Pali
373	Sikkim	Gangtok
374	Tamil Nadu	Ambur
375	Tamil Nadu	Chennai
376	Tamil Nadu	Chidambaram
377	Tamil Nadu	Coimbatore
378	Tamil Nadu	Cuddalore
379	Tamil Nadu	Dharmapuri
380	Tamil Nadu	Dindigul
381	Tamil Nadu	Erode
382	Tamil Nadu	Hosur
383	Tamil Nadu	Kancheepuram
384	Tamil Nadu	Karaikkudi
385	Tamil Nadu	Karur
386	Tamil Nadu	Kovilpatti
387	Tamil Nadu	Krishnagiri
388	Tamil Nadu	Kumbakonam
389	Tamil Nadu	Madurai
390	Tamil Nadu	Nagercoil
391	Tamil Nadu	Namakkal
392	Tamil Nadu	Pollachi
393	Tamil Nadu	Pondicherry
394	Tamil Nadu	Pudukkottai
395	Tamil Nadu	Ramanathapuram
396	Tamil Nadu	Ranipet
397	Tamil Nadu	Salem
398	Tamil Nadu	Sivakasi
399	Tamil Nadu	Thanjavur
400	Tamil Nadu	Theni Allinagaram
401	Tamil Nadu	Thoothukkudi
402	Tamil Nadu	Tiruchengode
403	Tamil Nadu	Tiruchirappalli
404	Tamil Nadu	Tirunelveli
405	Tamil Nadu	Tiruppur
406	Tamil Nadu	Tiruvannamalai
407	Tamil Nadu	Udhagamandalam
408	Tamil Nadu	Vaniyambadi
409	Tamil Nadu	Vellore
410	Tamil Nadu	Viluppuram
411	Telangana	Adilabad
412	Telangana	Hyderabad
413	Telangana	Jagtial
414	Telangana	Karimnagar
415	Telangana	Khammam
416	Telangana	Kodad

S.No.	State	City
417	Telangana	Kothagudem
418	Telangana	Mahbubnagar
419	Telangana	Mancherial
420	Telangana	Nalgonda
421	Telangana	Nirmal
422	Telangana	Nizamabad
423	Telangana	Ramagundam
424	Telangana	Sangareddy
425	Telangana	Siddipet
426	Telangana	Suryapet
427	Telangana	Tandur
428	Telangana	Warangal
429	Telangana	Zahirabad
430	Tripura	Agartala
431	Tripura	Kumarghat
432	Uttar Pradesh	Agra
433	Uttar Pradesh	Aligarh
434	Uttar Pradesh	Allahabad
435	Uttar Pradesh	Barabanki
436	Uttar Pradesh	Bareilly
437	Uttar Pradesh	Faizabad
438	Uttar Pradesh	Firozabad
439	Uttar Pradesh	Ghaziabad
440	Uttar Pradesh	Gorakhpur
441	Uttar Pradesh	Jhansi
442	Uttar Pradesh	Kanpur
443	Uttar Pradesh	Lucknow
444	Uttar Pradesh	Mathura
445	Uttar Pradesh	Meerut
446	Uttar Pradesh	Moradabad
447	Uttar Pradesh	Muzaffarnagar
448	Uttar Pradesh	Noida
449	Uttar Pradesh	Rampur
450	Uttar Pradesh	Saharanpur
451	Uttar Pradesh	Varanasi
452	Uttar Pradesh	Ayodhya
453	Uttar Pradesh	Balrampur
454	Uttar Pradesh	Banda
455	Uttar Pradesh	Chandauli
456	Uttar Pradesh	Gonda
457	Uttar Pradesh	Hardoi
458	Uttar Pradesh	Jaunpur
459	Uttar Pradesh	Kushinagar

S.No.	State	City
460	Uttar Pradesh	Maharajganj
461	Uttar Pradesh	Mau
462	Uttar Pradesh	Raebareli
463	Uttar Pradesh	Shahjahanpur
464	Uttarakhand	Dehradun
465	Uttarakhand	Haldwani-cum-Kathgodam
466	Uttarakhand	Haridwar
467	Uttarakhand	Kashipur
468	Uttarakhand	Mussoorie
469	Uttarakhand	Ramnagar
470	Uttarakhand	Rishikesh
471	Uttarakhand	Roorkee
472	Uttarakhand	Rudrapur
473	West Bengal	Asansol
474	West Bengal	Baharampur
475	West Bengal	Bankura
476	West Bengal	Barddhaman
477	West Bengal	Durgapur
478	West Bengal	English Bazar
479	West Bengal	Habra
480	West Bengal	Kharagpur
481	West Bengal	Kolkata
482	West Bengal	Siliguri
483	West Bengal	Alipurduar
484	West Bengal	Balurghat
485	West Bengal	Bongaon
486	West Bengal	Contai
487	West Bengal	Darjeeling
488	West Bengal	Dinhata
489	West Bengal	Haldia
490	West Bengal	Islampur
491	West Bengal	Jalpaiguri
492	West Bengal	Koch Bihar
493	West Bengal	Kolaghat
494	West Bengal	Krishnanagar
495	West Bengal	Medinipur
496	West Bengal	Old Malda
497	West Bengal	Puruliya
498	West Bengal	Raiganj
499	West Bengal	Ranaghat
500	West Bengal	Raniganj
