

Sl. No.	District	Block	Village
13.	Kinnaur	Pooh	Surting Ting
14.	Kinnaur	Pooh	Kuno Khas
15.	Kinnaur	Pooh	Charang Khas
16.	Lahaul&Spiti	Spiti	Komik
17.	Lahaul&Spiti	Spiti	Shego
18.	Lahaul&Spiti	Spiti	Lidang
19.	Lahaul&Spiti	Spiti	Keuling
20.	Lahaul&Spiti	Spiti	Shushna
21.	Lahaul&Spiti	Spiti	Newpur
22.	Lahaul&Spiti	Spiti	Samling
23.	Lahaul&Spiti	Spiti	Chobrang
24.	Lahaul&Spiti	Spiti	Sanglung
25.	Lahaul&Spiti	Spiti	Mulche
26.	Lahaul&Spiti	Spiti	Lalung Khas
27.	Lahaul&Spiti	Spiti	Kibri
28.	Lahaul&Spiti	Spiti	Kaurik

4G services in Andhra Pradesh

2060. SHRI KANAKAMEDALA RAVINDRA KUMAR: Will the Minister of COMMUNICATIONS be pleased to state:

- (a) whether BSNL is providing 4G services in all the districts of Andhra Pradesh;
- (b) if so, the details thereof;
- (c) whether Government has taken any steps to improve the services of BSNL in all parts of the country, particularly in that State;
- (d) if so, the details thereof; and
- (e) if not, the reasons therefor?

THE MINISTER OF COMMUNICATIONS (SHRI RAVI SHANKAR PRASAD): (a) and (b) Out of total thirteen districts of Andhra Pradesh, Bharat Sanchar Nigam Limited

(BSNL) is providing 4G services in few places on limited scale in ten districts of Andhra Pradesh by using existing spectrum of 2100 MHz band. As on 31.05.2019, BSNL has installed 259 4G Base Transceiver Stations (BTSs) in Andhra Pradesh.

(c) to (e) Telecom Regulatory Authority of India (TRAI) monitors the performance of telecom service providers including Bharat Sanchar Nigam Limited (BSNL) against the benchmark for various Quality of Service (QoS) parameters laid down by TRAI by way of QoS regulations issued from time to time, through Quarterly Performance Monitoring Reports (PMRs).

As per latest PMR issued by TRAI for the quarter ending March 2019, BSNL is meeting all the benchmarks for Basic (Wireline) and Broadband Services throughout the country including Andhra Pradesh. For Cellular Mobile Telephone Service, BSNL is meeting the benchmark for all the parameters in all of its Licensed Service Areas (LSAs) including Andhra Pradesh except for the parameter "Network QoS DCR Spatial distribution measure or DCR Network_QsD(90,90) (benchmark 2%)" and "Network QoS DCR temporal distribution measure or DCR Network_QTD(97,90) (benchmark <= 3%)" in West Bengal Service area only.

Steps taken by BSNL to improve its services throughout the country including Andhra Pradesh are as under:

1. Augmentation of mobile equipment capacity/upgradation of mobile network in its areas under Phase-VIII.4 project by replacing old equipment having high operational cost and Annual Maintenance Charges, addition of 3G capacity for increasing 3G footprints and introduction of 4G services.
2. To improve quality of wireline telephone network, BSNL is replacing Legacy Public Switched Telephone Network (PSTN) switches to Next Generation Network (NGN) which support different kind of services. This will provide better facilities to customers and at lower maintenance cost to BSNL.
3. Transport Network with 200 GBPS line capacity connecting 47 state Capitals and important cities has been commissioned.
4. BSNL is deploying Wi-Fi hotspots through various projects which includes revenue share model with Hotspots Service Providers (HSSPs).
5. Routers have been installed and commissioned where by IP-MPLS (Internet Protocol-Multiprotocol Label Switching) network has increased from 106

cities to 205 cities providing connectivity for broadband, NGN (fixed line) and 2G/3G requirements.

6. BSNL is also focusing on customer care services by installing exclusive call centers for GSM services, Wire- line and Broadband services.
7. Constant monitoring of network to improve the quality of service
8. Launching of new services and bundling schemes in the network for retention of the subscribers.
9. Network outage is being monitored for further optimization/improvement.

Connection of mobile towers with fibre network

2061. DR. SASIKALA PUSHPA RAMASWAMY: Will the Minister of COMMUNICATIONS be pleased to state:

- (a) whether it is a fact that about 25 per cent of mobile towers are connected to fibre network, which is very meagre in comparison to the developed countries;
- (b) if so, the details thereof;
- (c) whether Government would get mobile towers connected to fibre network across the country;
- (d) if so, the details thereof; and
- (e) if not, the reasons therefor?

THE MINISTER OF COMMUNICATIONS (SHRI RAVI SHANKAR PRASAD): (a) and (b) Various Telecom Service Providers fiberise their network at any specific tower site. As per details provided by Telecom Service Providers (TSPs), about 31% of TSP sites have been connected to fibre network in the country. With respect to developed nations, some technical reports indicate that percentage of TSP sites connected to fibre is higher.

(c) to (e) The infrastructure and equipment used for providing mobile communications, belong to various Telecom Service Providers (TSPs) and the decisions regarding providing connectivity to the TSP sites through fibre or through other means is taken based on various techno-commercial considerations including network capacity required at that particular physical site (tower).