**ABSTRACT**

Femtocell is a small cellular base station, designed for use in residential or enterprise, Connects to the service provider’s network via broadband. Femtocell is one type of Indoor network which provide the wireless access within the particular area. Femtocell ensure that they are, carefully planned cellular network. Mobile handsets can handle phone calls through the femtocell, with the broadband internet connection. Femtocell is a device that creates a small area of cellular signal in your home or office. It works through internet connection and convert your cell signal, then send it over the internet to a femto gateway which then sends the signal out from there.it provides excellent coverage and capacity.

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| S No | Abbrevation | Expansion |
| 1 | WiMAX | Worldwide Interoperability for Microwave Access |
| 2 | LTE | Long-Term Evolution |
| 3 | HSPA | High Speed Packet Access |
| 4 | DSL | Digital subscriber line |
| 5 | 3G | Third generation |
| 6 | GSM | Global System for Mobile communication |
| 7 | GRP | Gross rating point |
| 8 | GAN | Generic Access Network |

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