CLAIMS:

1. A method of transmitting an uplink signal by a user equipment (UE) in a wireless communication system, the method comprising:

receiving a random access response (RAR) message comprising a timing advance (TA) command related to an index value for performing a timing advance operation by the UE;

determining a TA value for the timing advance operation based on (i) the TA command and (ii) a UE-specific subcarrier spacing of an uplink channel to be initially transmitted after reception of the random access response (RAR) message; and

transmitting the uplink signal according to the timing advance operation based on the TA value,

wherein the TA value is configured to (i) increase as the index value indicated by the TA command increases, and (ii) decrease as the subcarrier spacing increases.

2. The method according to claim 1, further comprising:

determining a basic unit of the TA value based on the subcarrier spacing of the uplink channel to be initially transmitted after the reception of the RAR message,

wherein determining the TA value for the timing advance operation comprises:

determining the TA value based on (i) the TA command and (ii) the basic unit of the TA value.

3. A user equipment (UE) configured to transmit an uplink signal in a wireless communication system, the UE comprising:

a transceiver;

at least one processor; and

at least one computer memory operably connectable to the at least one processor and storing instructions that, when executed, cause the at least one processor perform operations comprising:

controlling the transceiver to receive a random access response (RAR) message comprising a timing advance (TA) command related to an index value for performing a timing advance operation by the UE;

determining a TA value for the timing advance operation based on (i) the TA command and (ii) a UE-specific subcarrier spacing of an uplink channel to be initially transmitted after reception of the random access response (RAR) message; and

controlling the transceiver to transmit the uplink signal according to the timing advance operation based on the TA value,

wherein the TA value is configured to (i) increase as the index value indicated by the TA command increases, and (ii) decrease as the subcarrier spacing increases.

4. The UE according to claim 3, wherein the operations further comprise:

determining a basic unit of the TA value is determined based on the subcarrier spacing of the uplink channel to be initially transmitted after the reception of the RAR message,

wherein determining the TA value for the timing advance operation comprises: determining the TA value based on (i) the TA command and (ii) the basic unit of the TA value.

5. A method of transmitting an uplink signal by a user equipment (UE) in a wireless communication system, the method comprising:

receiving a downlink channel comprising a timing advance (TA) command related to an index value for performing a timing advance operation by the UE;

determining a TA value for the timing advance operation based on (i) the TA command and (ii) a largest value among subcarrier spacing values of a plurality of uplink bandwidth parts of the UE; and

transmitting the uplink signal according to the timing advance operation based on the TA value,

wherein the TA value is configured to (i) increase as the index value indicated by the TA command increases, and (ii) decrease as the largest value among the subcarrier spacing values increases.

6. The method according to claim 5, further comprising:

determining a basic unit of the TA value based on the largest value among the subcarrier spacing values,

wherein determining the TA value for the timing advance operation comprises:

determining the TA value based on (i) the TA command and (ii) the basic unit of the TA value.

7. The method according to claim 6, wherein determining the TA value for the timing advance operation comprises:

determining the TA value by rounding-off the index value indicated by the TA command based on the basic unit of the TA value.

8. The method according to claim 7, wherein determining the TA value by rounding-off the index value indicated by the TA command based on the basic unit of the TA value is performed based on the uplink signal being transmitted in a first uplink bandwidth part which has a first subcarrier spacing smaller than the largest value among the subcarrier spacing values used for determining the TA value among the plurality of uplink bandwidth parts.

9. A user equipment (UE) configured to transmit an uplink signal in a wireless communication system, the UE comprising:

a transceiver;

at least one processor; and

at least one computer memory operably connectable to the at least one processor and storing instructions that, when executed, cause the at least one processor perform operations comprising:

receiving a downlink channel comprising a timing advance (TA) command related to an index value for performing a timing advance operation by the UE;

determining a TA value for the timing advance operation based on (i) the TA command and (ii) a largest value among subcarrier spacing values of a plurality of uplink bandwidth parts of the UE; and

transmitting the uplink signal according to the timing advance operation based on the TA value,

wherein the TA value is configured to (i) increase as the index value indicated by the TA command increases, and (ii) decrease as the largest value among the subcarrier spacing values increases.

10. The UE according to claim 9, wherein the operations further comprise:

determining a basic unit of the TA value based on the largest value among the subcarrier spacing values,

wherein determining the TA value for the timing advance operation comprises:

determining the TA value based on (i) the TA command and (ii) the basic unit of the TA value.

11. The UE according to claim 10, wherein determining the TA value for the timing advance operation comprises:

determining the TA value by rounding-off the index value indicated by the TA command based on the basic unit of the TA value.

12. The UE according to claim 11, wherein determining the TA value by rounding-off the index value indicated by the TA command based on the basic unit of the TA value is performed based on the uplink signal being transmitted in a first uplink bandwidth part which has a first subcarrier spacing smaller than the largest value among the subcarrier spacing values used for determining the TA value among the plurality of uplink bandwidth parts.