CLAIMS

1. A Bracketed Flat Plate system comprising a concrete flat plate or slab structure for construction of office, commercial, warehouse, car parking and podium structures thus facilitating safer, economical and construction friendly approach and also using less consumables such as concrete and rebars characterized in that:

   a. The concrete flat plate is cast in-situ;

   b. One or more diagonal brackets are provided at the column-slab junction extending to L/4-L/5 of spacing of columns, said brackets being tapered in depth at column-slab junction;

   c. A depth of the bracket vary from column edge L/9 to L/10 to L/25 to L/28 at free edge;

   d. A width of the bracket being L/25 to L/28; and

   e. The slab thickness varies from L/56 to L/54, wherein L being the length between the center to center of columns.

2. The Bracketed Flat Plate system as claimed in Claim 1, wherein the load path in the bracket flat plate system is of one-way shear and has bending mode at the column-bracket junction resulting in different mode of transfer of forces.

3. The Bracketed Flat Plate system as claimed in Claim 1, wherein the cast in-situ flat plate is provided with the rebars or post-tensioned slabs such that quantity of rebars used is less.

4. The Bracketed Flat Plate system as claimed in Claim 1, wherein the ductility detailing at the junction of column and bracket is provided with a drop head.

CLAIMS

1. A Bracketed Flat Plate system comprising a concrete flat plate or slab structure for construction of office, commercial, warehouse, car parking and podium structures thus facilitating safer, economical and construction friendly approach and also using less consumables such as concrete and rebars characterized in that:
    a. The concrete flat plate is cast in-situ;
    b. One or more diagonal brackets are provided at the column-slab junction extending to L/4-L/5 of spacing of columns, said brackets being tapered in depth at column-slab junction;
    c. A depth of the bracket vary from column edge L/9 to L/10 to L/25 to L/28 at free edge;
    d. A width of the bracket being L/25 to L/28; and
    e. The slab thickness varies from L/56 to L/54, wherein L being the length between the center to center of columns.

2. The Bracketed Flat Plate system as claimed in Claim 1, wherein the load path in the bracket flat plate system is of one-way shear and has bending mode at the column-bracket junction resulting in different mode of transfer of forces.

3. The Bracketed Flat Plate system as claimed in Claim 1, wherein the cast in-situ flat plate is provided with the rebars or post-tensioned slabs such that quantity of rebars used is less.