Claims:

1. A prefabricated building formwork component for cast-in-place applicable to columns or beams, comprising a cylindrical form shell and stirrups fixed to the form shell, wherein an upper end and a lower end of the form shell are provided with mating portions adapted to mate with adjacent form shells; wherein the form shell is formed by enclosing steel plates (1), and the stirrups are jointly comprised of the steel plates (1) and rod-shaped components (2) fixedly connected to inner sides of the steel plates (1).

2. A prefabricated building shear wall component for cast-in-place, comprising a first wall panel (1031) and a second wall panel (1032) arranged opposite to each other, wherein the first and second wall panels (1031, 1032) are connected by a plurality of tie components, forming a cavity between the first and second wall panels (1031, 1032); wherein both the first wall panel (1031) and the second wall panel (1032) are made of steel plates (1), and the tie components are steel rod-shaped components (201) fixedly connected between inner sides of the first and second wall panels (1031, 1032).

3. A prefabricated building floor slab component for cast-in-place, comprising floor slab bodies (104) and a plurality of rod-shaped connecting portions (202) protruding from an inner side of the floor slab bodies(104), wherein opposite slab floor bodies (104) are connected by the connecting portions (202), and both ends of the floor slab component are provided with mating portions adapted to mate with adjacent floor slab component; wherein the slab bodies (104) are made of steel plates (1), and the connecting portions (202) are provided with rebars (15) being parallel to the floor slab bodies (104) and forming a pouring cavity therebetween.

4. The prefabricated building formwork component of claim 1, wherein the form shell is formed by fixed connection between a plurality of segments of steel plates (1) that is longitudinally separated from each other along an enclosing center of the form shell.

5. The prefabricated building shear wall component of claim 2, wherein the first wall panel (1031) and/or the second wall panel (1032) is formed by fixed connection of a plurality of segments of steel plates (1) that are longitudinally separated from each other.

6. The prefabricated building floor slab component of claim 3, wherein the floor slab bodies (104) are formed by fixed connection of a plurality of segments of steel plates (1) that are separated from each other in the width direction of the floor slab bodies.

7. The prefabricated formwork component of claim 4 or the prefabricated building shear wall component of claim 5 or the prefabricated building floor slab component of claim 6,

wherein the fixed connection is formed by spot welding.

8. The prefabricated building formwork component of claim 1 or 4 or 7, or the prefabricated building shear wall component of claim 2 or 5 or 7, or the prefabricated building floor slab component of claim 3 or 6 or 7, wherein outer side of the form shell and/or the first wall panel (1031) and/or the second wall panel (1032) and/or the floor slab bodies (104) are further provided with a reinforcing layer being a magnesium phosphate-based material layer fixedly connected to the outer side of the form shell and/or the first wall panel (1031) and/or the second wall panel (1032) and/or the floor slab bodies (104).

9. The prefabricated building formwork component of claim 1 or 4 or 7, or the prefabricated building shear wall component of claim 2 or 5 or 7, or the prefabricated building floor slab component of claim 3 or 6 or 7, wherein opposite outer sides of the form shell and/or the first wall panel (1031) and/or the second wall panel (1032) and/or the floor slab body (104) are respectively recessed inwardly to form grooves (5); internal hollow region or cavity therebetween are provided with protrusions (6) corresponding to the grooves (5); both ends of the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202) respectively extend through the protrusions (6) into the grooves (5); both ends of the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202) are provided with connecting fasteners respectively, wherein the connecting fasteners is located in and fitted in the corresponding grooves (5); the connecting fasteners and the ends of the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202) are all located within the grooves (5) and are disposed inward of the outer side surface of the form shell and/or the first wall panel (1031) and/or the second wall panel (1032) and/or the slab bodies (104).

10. The prefabricated building formwork component or the prefabricated building shear wall component or the prefabricated building floor slab component of claim 9, wherein one end of the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202) is provided with an upset anchor head (7), and an opposite end thereof is provided with an external thread adapted to be connected with a nut (9), wherein the upset anchor head (7) and the nut (9) respectively act as the connecting fasteners at both ends of the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202).

11. The prefabricated building formwork component or the prefabricated building shear wall component or the prefabricated building floor slab component of claim 9, wherein both ends of the rod-shaped components (2) or steel rod-shaped components (201) or connecting

portions (202) are provided with external threads adapted to be connected with a nut (9), respectively acting as the connecting fasteners at the both ends of the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202).

12. The prefabricated building floor slab component of anyone of claims 9 to 11, wherein the connecting portions (202) are an L-shaped structure, with a bottom horizontal segment being directly fitted and fixedly connected to an inner side of the floor slab bodies as a connecting fastener, and a vertical segment being connected to the rebars (15).

13. The prefabricated building formwork component or the prefabricated building shear wall component or the prefabricated building floor slab component of claim 10, wherein the upset anchor head comprises an anchor head body (8) having a diameter larger than that of the rod-shaped component, and protruding outwardly to form an annular fitting portion (10) being capable of fitting with the grooves (5); or the anchor head body (8) fitting with the groove (5) through a washer (11) is provided on the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202), wherein the washer (11) has a diameter larger than that of the anchor head body (8).

14. The prefabricated building formwork component or the prefabricated building shear wall component or the prefabricated building floor slab component of claim 9, wherein a side wall and a bottom of the grooves (5) form an angle in a range of 30° to 60°; the diameter of the protrusions (6) is 2 to 5 times the diameter of the rod components (2) or steel rod-shaped components (201) or connecting portions (202).

15. The prefabricated building formwork component of claim 1 or the prefabricated building shear wall component of claim 2 or the prefabricated building floor slab component of claim 3, wherein the mating portions at one end of the component are tightly fitted with corresponding mating portions of adjacent components, so that two components are joined and their outer sides are aligned with each other.

16. The prefabricated formwork component or the prefabricated building shear wall component or the prefabricated building floor slab component of claim 15, wherein the mating portions are in a form of slot connection or plug-in connection.

17. The prefabricated building formwork component of anyone of claims 1, 4, 7-11, and 13-16 or the prefabricated building shear wall component of anyone of claims 2, 5, 7-11, and 13-16 or the prefabricated building floor slab component of anyone of claims 3, 6, and 7-16, wherein the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202) are arranged in multiple layers along the longitudinal direction of the form shell

and/or the first wall panel (1031) and/or the second wall panel (1032) and/or the floor slab bodies (104), with the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202) within the same layer being coplanar and parallel to each other, and the rod-shaped components (2) or steel rod-shaped components (201) or connecting portions (202) of adjacent layers being arranged to cross each other in a perpendicular direction or to cross each other in parallel directions at different positions.

18. The prefabricated formwork component of anyone of claims 1, 4, 7-11, and 13-17, wherein the form shell is made of seamless steel pipes or is formed by laterally bending and enclosing steel plates.

19. The prefabricated floor slab component of anyone of claims 3 or 6 to 18, wherein the rebars (15) are a rebar mesh formed by a plurality of crossing rebars.