

CONSTRUCTION METHOD OF AN ELEVATED CONCRETE SLAB USING PRECAST
CONCRETE PANELS AND TEMPORARY ELEVATED SUPPORTING MEANS

ABSTRACT

The construction method of an elevated concrete slab in which the construction of all permanent structures on the supporting vertical members at the construction site can be performed completely above ground or above lower floor, without any use of shoring members is provided in the present invention. This construction method is obtained by the utilization of four inventive components provided by the present invention. These four components are the temporary elevated supporting means with access hole forming set, the precast reinforced concrete panel, the spacing gap formwork and the combination designs of concrete slab reinforcing bars. The construction procedure including the installation of supporting vertical members which can be supporting piles or supporting columns, the installation of temporary elevated supporting means, the installation of precast reinforced concrete panels, the installation of spacing gap formworks and the installation of the combination designs of concrete slab reinforcing bars follows by the installation of side formworks, the pouring of wet concrete mixture, the concrete curing period and the removal of all removable components as well as the finishing of concrete slab surface to complete the construction. The construction method of the present invention is proved to be easier, faster, better quality and less expensive than any conventional method. It is also proved to be applicable where the existing conventional methods are not applicable effectively, efficiently and economically.