

**SPECIAL CONDITIONS OF CONTRACT**  
**(SUBWAY / RUB WORKS)**

- 1 The Contractor on award of the contract shall submit a detailed bridge-wise (Subway/RUB) programme from commencement to completion in the form of a bar chart duly indicating various activities at site like mobilisation, collection of materials viz sand, aggregate, cement & steel, bar bending, casting, curing laying of the boxes under the block, casting of wing walls / terurns, pitching & making up of cess. The list enumerated above is illustrative and all activities required for successful completion should be indicated giving date of commencement & completion.
- 2 The Contractor will be required to work simultaneously at 5 - 6 bridges at different locations and he should mobilise separate shuttering, batching plant, mixers with supporting machinery & plant along with necessary labour at each location, separately for speedy execution of the work.
- 3 On completion of the casting, block programme should be submitted by the contractor for launching / Laying of the boxes in consultation with the Engineer in charge of the work and on approval of the block the contractor shall mobilise crane of adequate capacity and reach as per the site condition for placement of the pre- cast boxes. Another crane of similar capacity should also be mobilised as stand - by for use in case of failure.
- 4 Adequate number of excavator along with demolition equipments with compressor & jack hammer should be mobilised for the work.
- 5 During demolition / excavation, some controlled blasting may be necessary, which shall be arranged by the contractor at no extra cost except wherever provided in the schedule.
- 6 On completion of block work, traffic should be restored at restricted speed of 20 kmph and all necessary arrangement for above viz. filling of earth, ballasting & laying of track should be completed by the contractor within the stipulated block duration.
- 7 The rear work after the block should be completed simultaneously or latest by next three days for relaxing the speed.

**8 Method of Working**

- a Works to be carried out before block
- b Preliminary work for Line block
- c Work during Line block
- d Work after Line block

**a) Works to be carried out before block**

- i) The contractor has to submit mix design in advance
- ii) The contractor has to precast base slab, RCC box in segments as per the approved plan and curing is to be done. No payment will be given for curing. While carrying out excavation for subway works, dewatering of pits has to be carried out by contractor at this own cost.

**b) Preliminary work for Line block**

- i) The contractor has to cut the required length of rail and fish bolts are to be provided, duly providing holes in rails.
- ii) The contractor may remove the ballast to the extent possible.
- iii) The contractor may excavate the earth to the possible safety length and one or two box segments may be put in position, either on LH side or RH side.

c) **Work during Line block**

- i) The contractor has to dismantle the track along with sleepers and has to remove the ballast.
- ii) The contractor has to excavate the bank to the required extent & width, using Poclain & other machinery.
- iii) After doing the earth work excavation to the required depth, sand to be spread for 15 cm thick, if required below the base slab and RCC box segment are to be placed with the road crane.
- iv) After erecting the RCC box, earth is to be filled to the extent required and to be compacted using vibrator rollers.
- v) Link the track duly putting back ballast and sleeper.  
All the above works are to be carried out, within the stipulated traffic block permitted.

d) **Work after Line block**

- i) The remaining length of bridge box segments are to be erected.

**Special Conditions for working of Road Cranes**

- 1) No Machines shall be selected to do any lifting on a specific job, until its size and characteristics are considered against the weights, dimensions and lift radii of the heaviest and largest loads, to be handled.
- 2) The Contractor shall ensure that a valid Certificate of fitness is available before use of Road cranes.
- 3) Contractors can utilize the services of any competent person as defined in factories Act,1948 and approved by Chief Inspector of Factories.
- 4) The laminated photocopies of fitness certificate issued by competent person, the operator's photo, manufacturer's load chart and competency certificate shall always be either kept in the operator cabin or pasted on the visible surface of the lifting appliances.
- 5) All lifting appliances including all parts and gears thereof, whether fixed or movable shall be thoroughly tested and examined by a competent person once at least in every six months or after it has undergone any alternations or repairs liable to affect its strength or stability.

In addition, it is also advised that for all the works being executed by the Road Cranes, the above stipulations should be ensured. **These instructions should be strictly observed.**