

UTKRUSHTA INFRACON PRIVATE LIMITED

WORK METHODOLOGY

1

ANTITERMITE TREATMENT

1.1

1st TREATMENT:- TREATMENT FOR R.C.C. FOUNDATION :- In the case of R.C.C. Foundations, the concrete is dense being minimum 1:2:4 mix or richer, the termites are unable to penetrate it. It is therefore, unnecessary to start the treatment from the bottom of excavation. Treat the surrounding filled soil of r.c.c. foundations (columns) 500 mm below earth level i.e. vertical surface of the r.c.c. foundations shall be treated with the chemical emulsion at the rate of 7.5 lt per Sqm.

1.2

2nd TREATMENT - TREATMENT FOR TOP SURFACE OF PLINTH FILLING:- After the soil filling is completed in the plinth area and before rubble packing or sub grade is laid the entire surface of the filled earth shall be treated with the chemical emulsion at the rate of 5 Lt. Per Sq. Mtr. Holes up to 50 mm to 75 mm deep at 150 mm centers both ways may be with 12 mm diameter mild steel rod on the surface to facilitate saturation of soil with the chemical emulsion.

2

PCC

2.1

Clean the Excavated ground properly, remove all loose soil from the area where PCC is proposed.

2.2

Confirm the SBC from EIC or RCC Consultant.

2.3

Check the size of PCC box as per RCC drawing, check the offset of PCC from face of footing as per drawing, check and confirm thickness of PCC. Confirm the level difference between any two adjacent footings is less than the distance between footings

2.4

Mark the level of PCC top on shuttering, close the pockets remained due to un levelled earth surface. Take the joint measurement for excavated level.

2.5

Check and confirm grade of concrete as per RCC drawing

2.6

Check the approved Mix design of required grade of concrete.

2.7

Apply antitermite treatment.

2.8

Check the slump of concrete as per required mix design, take the cubes for testing as required

Lay PCC, compact the PCC with Dhumas, and if depth is more compact using vibrator, avoid excess use of vibrator.

2.9

Curing for next 7 Days.

3	PLUM CONCRETE
3.1	Clean the Excavated ground properly, remove all loose soil from the area where PCC is proposed.
3.2	Confirm the SBC from EIC or RCC Consultant.
3.3	Check the size of PCC box as per RCC drawing, check the offset of PCC from face of footing as per drawing, check and confirm thickness of PCC. Confirm the level difference between any two adjacent footings is less than the distance between footings
3.4	Mark the level of PCC top on shuttering, close the pockets remained due to un levelled earth surface. Take the joint measurement for excavated level.
3.5	Check and confirm grade of concrete as per RCC drawing
3.6	Check the approved Mix design of required grade of concrete.
3.7	Apply antitermite treatment.
3.8	Collect the required quantity of plum near work place to avoid delay in placing plum in PCC. Sprinkle good amount of water on plum to achieve SSD condition.
3.9	Check the slum of concrete as per required mix design, take the cubes for testing as required
,3.10	Lay PCC and place plum as per required proportion. Take care that plum is placed such that there is no void left and each plum is coated with concrete. Compact the PCC with Dhumas, and if depth is more compact using vibrator, avoid excess use of vibrator.
3.11	Curing for next 7 Days.
4	RCC RAFT
4.1	Clean the PCC surface properly, break the bunds made for ponding if any.
4.2	Mark the raft size as per architectural drawing on PCC
4.3	Lay the reinforcement as per RCC drawing.
4.4	Provide required amount of covers (as mentioned in RCC drawing) to bottom bars and chairs to keep the top reinforcement stiff enough.
4.5	Get the reinforcement checked by EIC/ RCC Consultant.
4.6	Provide shuttering as per measurements, check the supporting
4.7	Check the slum of concrete as per required mix design, take the cubes for testing as required
4.8	Lay the concrete as per required grade mentioned in the RCC drawing.
4.9	Use vibrator / Screed to compact the concrete and level the concrete as per required level.

5	RCC FOOTINGS
5.1	Clean the PCC surface properly, break the bunds made for ponding if any.
5.2	Mark the raft size as per architectural drawing on PCC
5.3	Lay the reinforcement as per RCC drawing.
5.4	Provide required amount of covers (as mentioned in RCC drawing) to bottom bars and chairs to keep the top reinforcement stiff enough.
5.5	Get the reinforcement checked by EIC/ RCC Consultant.
5.6	Provide shuttering as per measurements, check the supporting
5.7	Check the slump of concrete as per required mix design, take the cubes for testing as required
5.8	Lay the concrete as per required grade mentioned in the RCC drawing.
5.9	Use vibrator to compact the concrete and level the concrete as per required level.
6	RCC STUB COLUMN
6.1	Check the column reinforcement as per RCC Drawing. Clear the loose concrete if present on the reinforcement.
6.2	Erect the column shuttering as per size mentioned in RCC drawing. Provide proper cover blocks to assure proper cover as per RCC drawing.
6.3	Mark the desired level of concrete top i.e. bottom level of the beam.
6.4	Check the slump of concrete as per required mix design, take the cubes for testing as required
6.5	Pour some cement water prior to pouring concrete.
6.6	Lay the concrete as per required grade mentioned in the RCC drawing.
6.7	Use vibrator to compact the concrete and level the concrete as per required level.
7	RCC PLINTH BEAMS
7.1	Level the backfilled soil and ensure that it is properly compacted. Dress the excess soil to receive the required level for laying PCC.
7.2	Lay PCC and level it to required bottom level of plinth beam.
7.3	Provide reinforcement as per RCC drawing for plinth beams. Provide proper cover blocks to bottom and sides of the beam.
7.4	Erect the shuttering as per size, and check for proper supporting.

7.5	Check the slump of concrete as per required mix design, take the cubes for testing as required
7.6	Pour some cement water prior to pouring concrete.
7.7	Lay the concrete as per required grade mentioned in the RCC drawing.
7.8	Use vibrator to compact the concrete and level the concrete as per required level.
8 BACK FILLING	
8.1	Ensure and check that all the RCC members in plinth are as per dimensions and positions as mentioned in RCC and Architectural drawings.
8.2	Rectify honeycomb if left any. Apply the water repellent bituminous painting if required and suggested by consultant.
8.3	Get the backfilling material approved by EIC. Ensure that there is no presence of BC soil.
8.4	Fill the soil in layers of 300 mm if plate compactor is used and 1000 mm layer if vibrator walk behind roller is used.
8.5	Take care while placing and levelling of soil with the help of JCB / BOB CAT to avoid damage to the RCC members.
8.6	Compact the soil using appropriate compactor, keep the filling moisture as optimum moisture content.
8.7	Take the proctor density test as required.
9 SOLING	
9.1	After filling and compaction is done and proper proctor density is achieved start laying soling.
9.2	Stack the required size of stone for soling.
9.3	Mark the top level of soling as per section drawing, and tie the line dori in panel size of 2.5 m x 2.5 m.
9.4	Lay the soling stone on its natural base to avoid overturning at the time of compaction.
9.5	Fill in the gaps with help of stone chips and dress the excess stone peaks with the help of hammer. Spread murrum on the soling surface.
9.6	Dry Compact the surface. Next day do the watering on the soling and wet compact the surface at OMC.
10 FLOOR PCC	

10.1	Clean the Excavated ground properly, remove all loose soil from the area where PCC is proposed.
10.2	Mark the level of PCC top on shuttering,
10.3	Check and confirm grade of concrete as per RCC drawing
10.4	Check the approved Mix design of required grade of concrete.
10.5	Apply antitermite treatment.
10.6	Check the slump of concrete as per required mix design, take the cubes for testing as required
10.7	Lay PCC, compact the PCC with Dhumas, and if depth is more compact using vibrator, avoid excess use of vibrator.
10.8	Curing for next 7 Days.