



Uhde India Limited

**PART – II
SECTION-21
TECHNICAL SPECIFICATIONS
DISMANTLING & MISC. WORK**

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CI-UCH-016-021

Rev. :R0
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21.1

SCOPE

This specification defines the dismantling of reinforced concrete, plain concrete, brick work and structural steel work or any such other work. Any special requirement as shown or noted on the drawing shall govern the provision of this specification.

21.2

DISMANTLING

The term dismantling implies carefully removing without damage below or above ground. This shall consist of dismantling one or more parts of the building / structure as specified or shown on the drawings.

21.3

GENERAL

21.3.1

Precautions

All materials obtained from dismantling shall be property of the "Owner" unless otherwise specified and shall be kept in safe custody until handed over to the Engineer or reused as directed by the Engineer.

21.3.2

The dismantling shall always be planned before hand and shall be done in reverse order of the one in which the structure was constructed. The scheme shall be got approved from the Engineer before starting the work.

21.3.3

Necessary propping and/or under-pinning shall be provided for the safety of the adjoining work or property before dismantling work is taken up and the work shall be carried out in such a way that no damage is caused to the adjoining structure or property. Temporary enclosures or partition shall also be provided as deemed necessary.

21.3.4

Necessary precautions shall be taken to keep down the dust nuisance.

21.3.5

Dismantling shall be done in a systematic manner. All materials which are likely to be damaged by dropping from a height or demolishing roofs, masonry etc. shall be carefully removed first. The dismantled articles shall be passed by hand, where necessary, lowered to the ground (and not thrown) and then properly stacked as directed by the Engineer.



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21.3.6 Where fixing is done by nails, screws, bolts etc. dismantling shall be done by taking out the fixing with proper tools and not by tearing or ripping off.

21.3.7 Any serviceable material, obtained during dismantling shall be separated out and stacked properly as directed by the Engineer. All unserviceable materials, rubbish etc. shall be disposed of as directed by the Engineer.

21.3.8 The Contractor shall divert and maintain disconnected services whether temporary or permanent, if required as directed by the Owner/Engineer.

21.4 TOOLS & TACKLES TO BE USED FOR DISMANTLING

21.4.1 As the dismantling activity shall be undertaken within the existing buildings/structures, utmost care shall be taken to prevent transmission of vibrations during dismantling and damage to adjoining members or structures.

21.4.2 Pneumatically operated dismantling equipments like power chisel or pavement breakers may be used for dismantling concrete only after prior inspection and permission of the Engineer. However, the Contractor to note that while using such pneumatically operated tools, necessary precautionary measures to be taken so that adjacent members are not damaged / cracked.

21.4.3 Dismantling shall be done manually using hand operated chisel with flat face hammers. The weight of hammer shall be generally limited to 15 lbs, where pneumatic / electric driven tools are not permissible.

21.4.4 Concrete sawing or cutting using standard concrete cutters / or any other method shall also be permitted depending upon the type of structure and with the approval of the Owner / Engineer.

21.4.5 Wherever shown in the drawing or directed by the Engineer, the reinforcement shall be left untouched for further lapping and shall NOT be cut.



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21.5

RECONSTRUCTION

21.5.1

The dismantled surface shall be thoroughly cleaned by wire brush and then with compressed air jet to remove all loose particles, lattence etc. before recasting.

All reinforcement bars / inserts etc. shall be cleaned properly with brush / compressed air and place in position beffore concreting. Concreting can be carried out ONLY after the inspection and clearance of the Engineer. Wherever required (as shown in the drawing or as directed by the Engineer, welding to the existing reinforcement / inserts shall be carried out. In such cases, welding work shall be carried out as per relevant I.S. Code.

If, as per drawing or directed by the Engineer, bonding point to be applied to the old concrete faces as per the manufacturer's instructions before placing new concrete.

21.6

MEASUREMENTS & RATES

a) Brickwork

Dismantling of brickwork (reinforced or otherwise) shall also include plastering. The measurement for payment shall be on the basis of brickwork only (excluding plastering) in cubic metre (M³) after deducting for all cutouts, openings etc. The rates shall conclude supplying of all dismantling equipment, scaffolding and protecting, stacking and disposal cleaning as directed, labour and taxes, insurance etc. all complete in all respects including all safety measures and at all heights.

b) Plain Cement Concrete

Dismantling of PCC at all levels shall be measured in cubic metre excluding all openings and cutouts of plaster (if any). The rate shall include supplying of dismantling equipment, scaffolding and protecting stacking of serviceable material and disposal of unserviceable materials as directed, labour, all taxes and levies, insurance and safety measures complete in all respects at all heights.



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c) Reinforced Concrete

Same as item no.(a)

Additionally, the rates shall also include exposing and cleaning of existing reinforcement, straightening of the same and / or bending the same as per drawing / direction of the Engineer, welding with new reinforcement if required as per drawing, all complete in all respects.

21.6.1 Dismantling of floors and roofs of concrete or brick shall be measured in cubic metres (cu.m.), beams, cantilevers or other subsidiary supports of similar materials, shall be included in the item. In measuring thickness of roofs provided with water proofing treatments with bitumen felts, the thickness of water proofing treatment shall be ignored.

21.6.2 Reinforced Concrete and Brick Work

Reinforced concrete structures and reinforced brick roofs and walls shall be measured in cubic metres and square metres as specified in schedule of rates and reinforcement if required to be salvaged, shall be so stated.

21.6.3 Steel and Iron Work

21.6.3.1 All steel and iron work shall be measured in metric tonnes (MT). The weight shall be computed from standard tables unless the actual weight can readily be determined.

21.6.3.2 Rivetted work, where rivets are required to be cut, shall be measured separately as specified in schedule of item.

21.6.3.3 Marking of structural steel required to be re-erected shall be properly done and measured separately.

21.6.3.4 In frames steel items, the weight of any covering material or filling such as iron sheets and expanded metal shall be included in the weight of the main article unless such covering is not ordered to be taken out separately.

21.7 INSTALLATION OF ANCHOR FASTENERS

The anchor fasteners shall be from reputed manufacturers and shall be installed as per drawing and manufacturer's catalog. For proper installation in concrete, drill bits as specified in manufacturer's literature shall be used.

21.8 PAYMENT

21.8.1 Measurements of all work except hidden work shall be taken and no allowance for increase in bulk shall be allowed.

21.8.2 Specifications for deductions for voids, openings etc. shall be on the same basis as that employed for construction of the work.

21.8.3 The rate shall include the cost of all labour involved and tools used in demolishing and dismantling including scaffolding. The rate shall also include the charges for separating out and stacking the serviceable material properly within a distance of 50 metres and disposing of unserviceable materials as directed by Engineer.

21.8.4 For installing anchor fasteners, the rate shall include all labour involved, tools, concrete drill bits and staging / scaffolding.

END