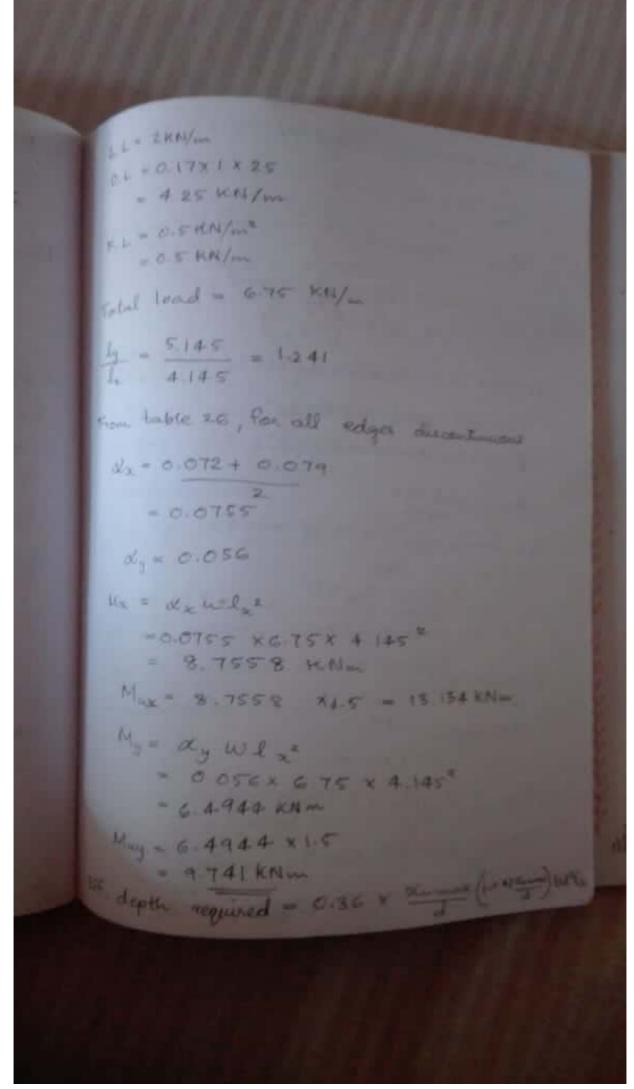
1 = 20 x Mf Assume % tensile reinforcement = 0.85% From Fig 4 of 15 456 2000 $\frac{1}{d} = 20 \times 1.4$ $\frac{1}{d} = 20 \times 1.4$ d= 142.85 Assume a clear cover of 20 mm & 4 of ban 10 mm D=d+c+10 = 142.85 + 20 +5 = 167.85 mm \$ 170 mm . d = 145 Assume 6 = Im Eff- span of slab = 1+b Eff- span in one dir" = 4000 + 145 = 4145 min Eff-span in other dir" = 5000 + 145 = 5145 mm Step 3: Computator of lands of BM.

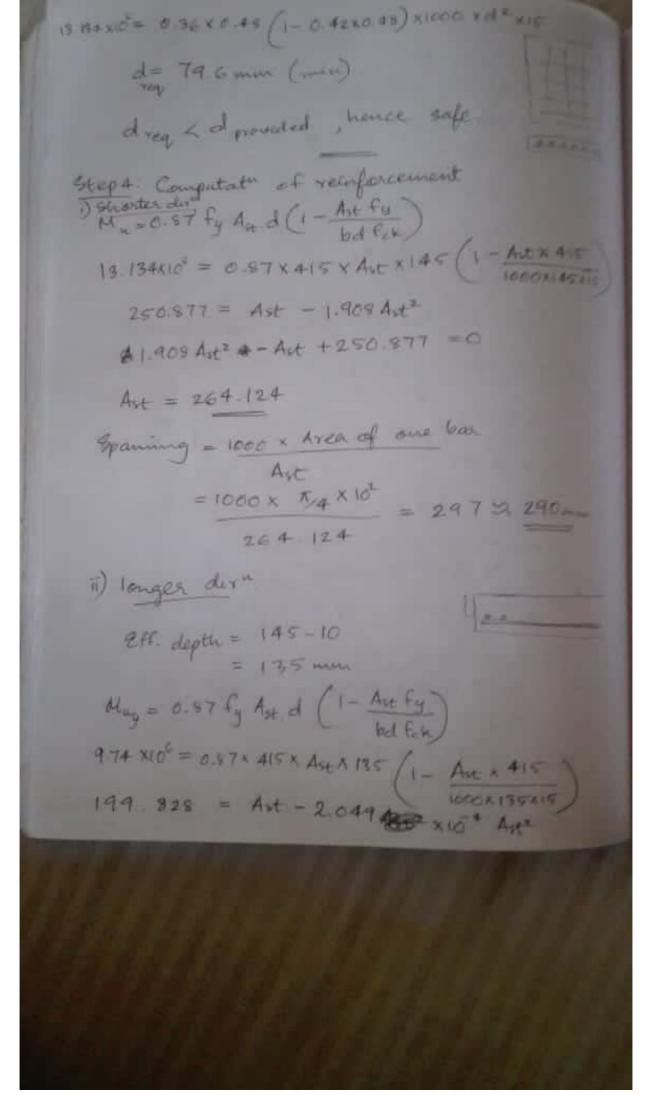
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Henrie safe prologment length = \$ \$ = 10 x0 = 7 x 415 = 752.187 mm sowing RCC roofing stab over a voin Amxsm he slab is simply supported on all face edges with corners helddown the super imposed rad is 2 kN /m2 & floor finish is 0.5 KN/2 Use MIS concrete up Fe 415 steel. et Given for = 15 N/mme fy = 415 N/mm LL = 2KN/m2 thep I Check for one way on 2 way slab L = 5 = 1.25 { 2 It is a 2-way slab (Computation of slab dimension

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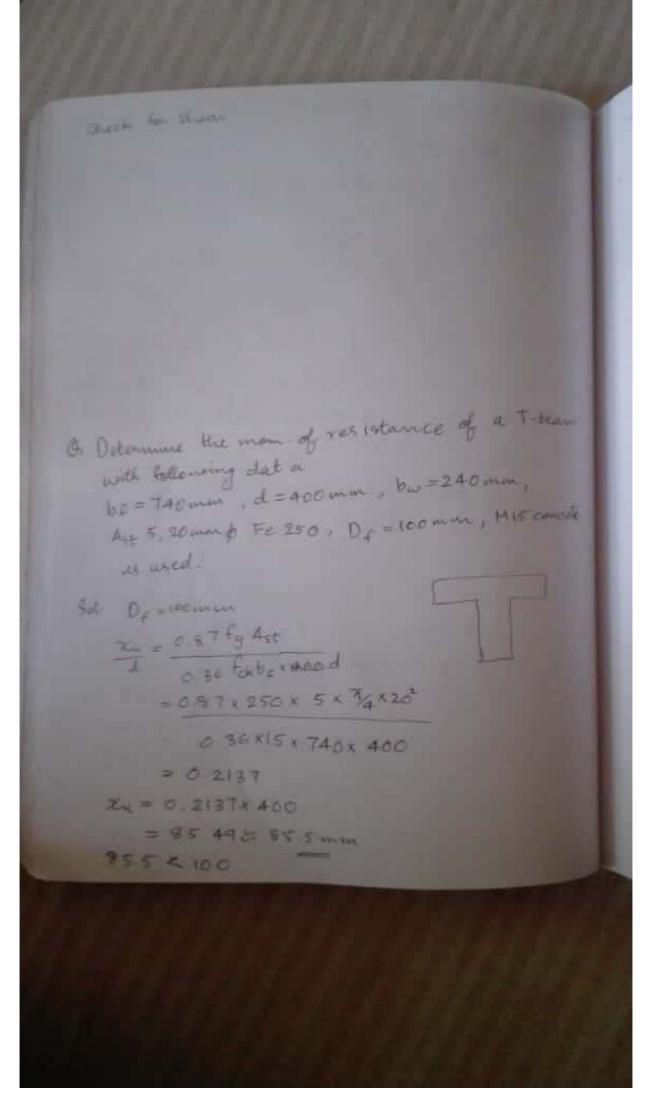
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1049 XIO+ Axt - Avt +199.828 -0 ht = 208.757mm 1000 x Aven of one but = 1000 × Tax 102 376 22 ta 300 mm 208.757 my Torsional veryfacement In the corners are held down, all the Form women's are included and with tarenamel reinforcement provided size of torsional mesh, = de ale = 4.140 x 4.145 = 0-82 9x 0.829m It each conner two meshes one at top of me at bottom are provided Aren of tonsional steel = 3 Astx = 3 ×264.124 = 198.09 mm2 house comm & bars at spacing = 1000 k Area of one bar = 1000 × 34 × 10° = 346.48

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NA lus unide flange It behaves as udmentar section 2 & Tu. max I is under reinforced seen From 6.1.1. b of Is 456: 2000 Ma = 0.87 fy Ast of [1 - Astfy] =0.87x 250x 5x 20x 7 x400 [1-1570x 250] = 1245 KNm

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