

Quality Control Check Report Stage: After Column Casting (villas)

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|---------------------------|--------------|------------|--------------------------------|---------------------------------------------------------------------|---------|
| Block No. | 07 | Column No. | | Sl. No. | 27998 |
| Company | HBM (LLP) | Project | A4H | Phase | — |
| Prepared by | P. Sai Kumar | Sign | PSK | Date | 12/9/17 |
| Project Manager | Suresh Kumar | Sign | <i>[Signature]</i> | Date | 12/9/17 |
| Previous stage report no. | 27721 | MD Sign | Report filed and signed by PM? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | |
| Checked By MD on | | MD Sign | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |

Recommendation:

Stop further work. Submit ATR on QC report to QC team. Proceed only after recheck by QC.

Stop further work. Proceed with work after submitting ATR on QC report to QC team.

Proceed with further work only after making corrections pointed out in the QC report. ATR not required.

Proceed with further work. ATR not required.

Columns Position Check

Notes:

- Inspection should be done after casting of columns at each stage and before starting centering works for each slab.
- Prepare Columns Position Check Plan as follows:
 - Divide blocks into smaller sub-blocks.
 - Show size and orientation of columns. (Tolerance 0.5")
 - Show inner - inner space between columns. (Tolerance 1")
 - Show diagonals for 20% of bays. (Tolerance 1.5")
 - Print an A3 size plan.
- Circle each correct dimension with green colour. Circle each incorrect dimension with red colour and mention actual dimension next to it.

Columns Position Check Plan enclosed? Yes No

Slab Dimensions Check

Notes:

- Prepare Slab (or plinth beams) Dimensions Check Plan as follows:
 - Show outer dimensions of slab. (Tolerance 2")
 - Show length and width of balconies (Tolerance 1")
 - Show inner dimensions of ducts and lift well. (Tolerance 1")
 - Show location of sunken slab.
 - Print an A3 size plan.
- Circle each correct dimension with green colour. Circle each incorrect dimension with red colour and mention actual dimension next to it.

Slab Dimensions Check Plan enclosed? Yes No

Specified thickness of slab? Actual thickness of slab?

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| | |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Quality of centering, rod bending and concreting. | |
| Quality of centering, rod bending and concreting? | |
| Quality of starters? | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Avg. <input type="checkbox"/> Bad |
| Number and size of honey combs? | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Avg. <input type="checkbox"/> Bad |
| Are the honey combs is slab and columns packed? | <input type="checkbox"/> High <input type="checkbox"/> Medium. <input checked="" type="checkbox"/> Low |
| Number of beams that are sagging, bulging, caved or deflected in the slab by more than 1" | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Avg. <input type="checkbox"/> Bad |
| Have 6 cubes each for columns and slab casted and numbered for testing? | — |
| Remarks: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Curing.

| | |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Bunds for curing made on slab? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Bund size is less than 100 sft? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Drum (200 lts) provided for curing? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Gunny bags used for column curing? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Distance of tap from furthest distance that requires curing. (max permitted 100') | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Frequency of curing in number of times a day (enquire from labourers) | 1 to 3 times |
| Is the pressure in the curing pipe more than 15' head? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Quality of infrastructure for curing. | <input checked="" type="checkbox"/> Good <input type="checkbox"/> Avg. <input type="checkbox"/> Bad |
| Remarks: | |

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Columns height, plumb, steel & level marking check.

Notes:

1. Mark ✓ for correct or minor mistake which does not require correction
2. Mark ✗ for minor mistake that requires minor correction.
3. Mark ✗✗ for major mistake that requires correction by replacement or re-fixing.
4. Mark ✗✗✗ for major mistake that cannot be corrected.
5. Tolerance: Plumb 0.25".
6. Circle actual height of columns if level differs from specified height by more than 1".

| S No | Col No. | Col type | Height in ft | | Steel (✓ or ✗) | | Honeycombs | Plumb (✓ or ✗) | | Reference level marked on column? |
|------|---------|----------|--------------|-----------|----------------|--------------|------------|----------------|--------|---------------------------------------------------------------------|
| | | | Spec. | Actual | No of rods | Size of rods | | Side 1 | Side 2 | |
| 1. | A1 | C1 | 8'-2 1/2" | 8'-2 1/2" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. | A3 | C1 | 8'-2 1/2" | 8'-8" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3. | A5 | C1 | 8'-2 1/2" | 8'-2 1/2" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 4. | B1 | C1 | 8'-2 1/2" | 8'-8" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5. | B2 | C2 | 8'-4 1/2" | 8'-5" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6. | B5 | C1 | 8'-4 1/2" | 8'-4" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 7. | C1 | C1 | 8'-2 1/2" | 8'-2 7/8" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 8. | D2 | C1 | 8'-4 1/2" | 8'-4" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 9. | D5 | C1 | 8'-4 1/2" | 8'-5" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 10. | E1 | C1 | 8'-2 1/2" | 8'-8" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 11. | F1 | C1 | 8'-2 1/2" | 8'-8" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 12. | F4 | C3 | 8'-1 1/2" | 8'-1 1/2" | ✓ | ✓ | ✓ | ✓ | ✓ | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 13. | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 14. | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 15. | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 16. | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 17. | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 18. | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 19. | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 20. | | | | | | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |