Internal Memo No. 917/9 – QC Date: 24-10-2020

Subject: Standard Operating procedure and minutes of meeting
Keywords: QC SOP, Minutes.

Guidelines for QC standard operating procedure have been discussed and given under:

1. Upload following drafts on M-codex under drafts:
    a. All QC reports of villas and apartments.
    b. Cube test report.
    c. ATR format – for customers + construction.
    d. QC quarterly report of missed QCs.
2. Internal memo 917/2 – stand cancelled. Cement blocks may be tested for compressive strength. The strength should be between 20 to 25 kgs/Sqcm.
3. Internal memo 917/1 stands cancelled. ATR on customer complaint must be sent within 2 weeks of complaint. ATR on construction must be sent within one week of QC report.
4. Internal memo 917/3 stands cancelled.
5. Internal memo 917/5 stands cancelled. The SOP mentioned herein shall be followed as under. These reports to be scanned and uploaded in the audit module of M-codex (when functional and till such time to be sent to audit team by email) and also email to Ashaiya for printing.
    a. Concrete testing report as per format given for the preceding month for all sites by 7th of each month. Mark remarks with X if strength is below specified strength and XX in case of gross error.
    b. Quarterly QC consolidated report (missed reports) as per prescribed format given herein (one for flats and one for villas) to be submitted once a quarter on or before 15th April, 15th July, 15th October & 15th January respectively. Clearly mark missed report as XX and X where XX represents. QC can't be taken up now and X represents QC may be taken up immediately. Where work is not completed leave blanks and in other places put QC report no.
    c. Printout from E&D of list of plans in force for each site must be certified by project manager, E&D & QC after verification of original copies available at site. This report must be sent once a quarter along with report mentioned in point b above. Cancelled plans must be removed and filed in cancelled plans file.
    d. QC audit report to be sent once a month along with report mentioned in point b above.
6. All sites must have a pre-printed consultants comments book. Report default.
7. QC reports are being scanned uploaded on M-codex. Sites to print and maintain block wise/flat or villa wise files. Original reports to be returned to site for filing after closure by MD. This is to be followed from immediate effect. Ashaiya to maintain a log book for closing the QC reports.
8. Correction of QC check plans. In case after site inspection it is found that an error has crept in to the QC check plan, then, immediately prepare a new plan and get it approved by M.D. Include the new plan in the QC report along with the old plan. Strike off the old plan saying 'corrected plan attached'.
9. QC check plans – atleast 10% of all diagonals must be marked in the plan. Diagonals must touch all corner columns of the structure.
10. Internal memo 917/6 stands cancelled. It is replaced by internal memo no. 912/115.
11. Internal memo no. 917/7 stand cancelled. QC shall upload reports on QC on the same day of inspection. A copy of report may be handed over at site, if required, in case of delay in uploading on Database.
12. Circular no. 603/a stand cancelled. Sites can proceed to next stage of work only after QC inspection and clearance from QC. In case where ATRs are required or QC check has to be redone, site cannot proceed with further work without complying with QC requirements.

13. Circular no. 605- concrete cube testing and weight of tor steel must be regularly checked. Hand held digital weighing machine may be purchased (2 nos.) for measuring weight of tor steel.
14. Sizes of windows, Z angle templates and grills have been specified in internal memo no. 913/29.
    a. They shall be accurately measured during inspection at each stage of work i.e., Z angles during brick work QC check, windows and grills during stage III QC check.
    b. One QC member shall visit SSLLP workshop and stores once a month and inspect all grills, Z angles and windows to verify sizes of material under fabrication or material in stock. Report to be sent to MD once a month – mention details only in case of default.
    c. During inspection at site MS square pipe templates used to check inner and outer dimensions of window openings, must also be checked for exact size.
15. Slump cone test must be regularly checked as per internal memo no. 912/124.
16. QC to check strength of cement mortar for 7 days and 28 days for the following:
    a. Proportion of 1:4, 1:6 & 1:8.
    b. Mix types: cement + stone dust, cement + M sand, cement + river sand, cement + 50% M sand & 50% river sand.
    c. Thereafter for proportion 1:6 check strength of mortar by using plasticizer, IWP separately for cement + M sand and cement + river sand.
17. Shuffling of QC engineers:
    a. Rajesh to report to HO from 1.11.2020 - to be assigned to another site.
    b. Sanket to report to HO from 1.1.2021 – to be replaced with another engineer.
    c. Vinod to report to HO from 1.7.2021 – to be replaced with another engineer.
18. QC engineers to be strict in their reports:
    a. Do not inspect site if major works are pending. Send email cancelling the inspection.
    b. Mark for ATR in case routine works are not completed or in case of errors.
    c. Do not inspect site if routine works are not completed, despite repeatedly pointing out the same issues on earlier occasions.
    d. Do not inspect site if setback levelling is not completed and marking on external walls is not made.
    e. In villas, after plastering QC check mark for ATR if staircase is not in order. Staircase marking as per standard procedure may also be requested.
19. Miscellaneous guidelines to be strictly followed:
    a. Self check report of pedestals is mandatory. Do not check plinth beams in case report is not made.
    b. Share all self check plans with sites.
    c. QC team must have clear drawings for inspection.
    d. Mark level of 3’3” or 1 mtr from SFL on all columns. This marking can be continued for brick work and plastering. One or two screws may be fixed. Colour code for marking must be strictly followed.
    e. Honey combs must be packed within one working day of de-shuttering. Recommend pressure grouting in QC report for large voids in columns, column beam joints and beam joints. Pressure grouting can be done only after honey comb filling.
    f. Before footing and column casting sites must clearly mark level of concreting + 2ft or 60cms with white enamel at 2 or more places. Do not inspect in case of default.
20. Changes in QC check reports:
    a. Before casting footings – villas – page 2 – add point 14 – mark with white enamel 2ft above concreting level at 2 or more places.
    b. After column casting – villas – page 3- add point 7 – mark with white enamel 2ft above concreting level at 2 or more places.

c. Before casting slab – villas – page 2 – add – MS strips used for filling gaps – Yes/No. add thermocol sheet used for electrical junctions – Yes/No.
d. After brick work – page 3 – add – point 11 - Check Z angle template size. Point 12 – Window opening must be checked with MS square pipe templates of 2 sizes for inner and outer openings. Point 13 – Z angle template must be 1" from brick wall surface from the inner side.
e. After plastering – Page 3 – add – tor steel is covered with mortar and steel is not exposed. – Yes/No.
f. After plumbing and electrical – villas – page 3 – add – Screeding done on walls upto 12" outside bathroom/utility – Yes/No. Add – bathroom/utility filled with 4" water for water proof check – Yes/No. Add – hole packing done around all pipes in ceiling and internal walls – Yes/No. Add – hole packing done around all pipes on external walls – Yes/No. Add – rainwater pipe is 2" below water proofing level – Yes/No. Add photograph of OHT/head room water proofing provided – Yes/No. Add -
g. After finishing stage 2 – page 4 - add – level of manhole covers - Good/Average/Poor. Provision of earth pit and manhole cover - Good/Average/Poor.
h. After finishing stage 3 – page 3 -add – hole packing on external surfaces is in order – Good/Average/Poor. Layout of CPVC & PVC is in order – Good/Average/Poor.. Use of fastners and clips for CPVC & PVC pipes is in order – Good/Average/Poor. Painting marks and drops are cleaned from floor, windows, walls, portico, setback - Good/Average/Poor. Correct quality of workmanship of lawn to levelling and compaction for lawn 6" below lawn FFL - Good/Average/Poor. Page 1 – correct – provision for video door phone/ wifi cam – Yes/No.
i. Before casting slab – page 1 – add – slab to slab height, specified, actual, within tolerance ½" – Yes/No.
j. After brick work – page 3 – correct pint 7 - kitchen platform thickness 2" , SFL to bottom 31" – tolerance -1".

Soham Modi.

<u>**Quality Control Check Repot.   Stage: After Brickwork (Apartments)**</u>

Flat No.		Others		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous Stage report no.			Report filed and signed by PM?		
Apartment No.		Other		other	
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Inspection should be done after:

- brickwork is completed
- chicken mesh fixed
- after cleaning the apartment
- electrical conducting work is completed

<u>Brickwork Check.</u>

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. Wall thickness should be as per plan. Use of 4”, 6” & 8” blocks must be checked.
6. All walls should have 2 beds of about 2”to 3” thickness with one no. 6 mm or 8 mm rod with M15 CC.
7. Chicken mesh should be used in each and every joint between RCC & Brickwork.
8. Joint between brickwork & beam on external side must be filled.
9. Check room dimensions with working plan. (Tolerance: 1”)
10. Diagonals of each room shall be equal. (Tolerance: 2”)
11. Balcony sill level should be 3’3” from SFL. (Tolerance: 1”)
12. Check room height with specified height. (Tolerance: 1”)
13. Check plumb of walls wherever it appears to be out of plumb. (Tolerance: 1/2”)
14. Specify the No. of beams which are not aligned by more than 1”in a room.
15. Door frames must have black Japan coating and wood primer /pellambar – at cost of painter.

Quality Control Check Repot.   Stage: After Brickwork (Apartments)

S No	Room	Wall thickness (✓ or ✗)	Beds in walls (✓ or ✗)	Chicken mesh (✓ or ✗)	External brickwork & beam joint (✓ or ✗)	Room Dimensions (✓ or ✗)	Room Dimensions Difference in inches	Diagonal (✓ or ✗)	Diagonal Difference in inches	Balcony sill level (✓ or ✗)	Room Height (✓ or ✗)	Plumb of walls (Good/Avg./Bad)	Alignment of beams and walls - Nos.
1	Bedroom 1												
2	Toilet 1												
3	Bedroom 2												
4	Toilet 2												
5	Bedroom 3												
6	Toilet 3												
7	Drawing												
8	Dining												
9	Lobby 1												
10	Utility / balcony 1												
11	Utility / balcony 2												
12	Utility / balcony 3												
13	Kitchen												
14	Other												
15	Other												

Remarks

Quality of edges and corners in all rooms?	☐ Good ☐ Avg. ☐ Bad
Specify rooms that need correction:	

Misc. Checks.

Was 3.75 CFT proportion box provided?	☐ Yes ☐ No
Condition of proportion box?	☐ Good ☐ Avg. ☐ Bad
Was the Apartment cleaned before starting brick work?	☐ Yes ☐ No ☐ Cant' say
Is the Apartment cleaned for plastering?	☐ Yes ☐ No
Wastage?	☐ High ☐ Medium ☐ Low
Storage of building material like bricks sand and cement.	☐ Good ☐ Avg. ☐ Bad
Drum (200 ltrs) provided for curing in each flat?	☐ Yes ☐ No
Remarks:	

Door Frames & Windows 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. Window template depth should be between 2 to 2 ½"after plastering.
6. Lentil level should be 7'3"from SFL & 7'from FFL. (Tolerance 1")
7. Lofts should be at a height of 7'to 7'3" from FFL. Kitchen plat form thickness should be 2", SFL to bottom 31".. (Tolerance 1")
8. Slopes of lofts and kitchen platforms to be checked by using 12"spirit level and check height from floor from 2 or 3 points.
9. Thickness of platforms & lofts should be between 2 & 2.5".
10. Provide single layer table brick at bottom of each door frame without threshold.
11. Check Z angle template size.
12. Window opening must be checked with MS square pipe templates of 2 sizes for inner and outer openings.
13. Z angle template must be 1" from brick wall surface from the inner side.

Quality Control Check Repot.   Stage: After Brickwork (Apartments)

S No	Room	Door size, face and position (✓ or ✗)	Brick at bottom of door frame10 (✓ or ✗)	Door lentil level (✓ or ✗)	Door diagonal check (✓ or ✗)	Door Plumb - two sides (✓ or ✗)	Windows lentil & sill level (✓ or ✗)	Windows size (✓ or ✗)	Windows - template depth & diagnal[5] (✓ or ✗)	Windows - template red oxide painting (✓ or ✗)	Loft & Kitchen platform height (✓ or ✗)	Loft & Kitchen platform slope (✓ or ✗)	Door size, face and position (✓ or ✗)
1	Bedroom 1												
2	Toilet 1												
3	Bedroom 2												
4	Toilet 2												
5	Bedroom 3												
6	Toilet 3												
7	Drawing												
8	Dining												
9	Lobby 1												
10	Utility / balcony 1												
11	Utility / balcony 2												
12	Utility / balcony 3												
13	Kitchen												
14	Other												
15	Other												
Remarks:													

Quality Control Check Repot. Stage: Before Casting Footings (Apartments)

Block No.		Column Nos		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Approved by MD Date		Sign		For Filing	☐ Yes ☐ 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.

Quality of centering, rod bending and marking.

Quality of centering, rod bending and marking?	☐ Good ☐ Avg. ☐ Bad
Remarks:	

Curing.

Tap provide at Apartment for curing.	☐ Yes ☐ No
Distance of tap from furthest distance that requires curing. (max permitted 150')	
Source of water	☐ Sump ☐ OHT ☐ Bore-well direct connection ☐ None
Frequency of curing in number of times a day	
Quality of infrastructure for curing.	☐ Good ☐ Avg. ☐ Bad
Remarks:	

Quality Control Check Repot.   Stage: Before Casting Footings (Apartments)

Covering blocks check.

Specified size of covering blocks		Actual size of covering blocks being used	
Remarks:			

Earth Work Check.

Quality of earth work?	☐ Good ☐ Avg. ☐ Bad	Excess earth shifted away from site?	☐ Yes ☐ No
Remarks:			

Footings 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. Pit size should be 6” to 12”more than the footings size on all sides.
6. Excess earth must be shifted away from footings area.
7. Depth should be more than or equal to the specified depth. Keep in mind PCC thickness & sand filling wrt to road FFL.
8. PCC should be 3”more than the footing size (or as specified) and in one level. (Level tolerance 1”)
9. Footing size & depth tolerance is 1”. Depth of footing must be marked by paint on column steel.
10. Proper pegs must be made for centerline marking on all sides in CRS or brickwork. Marking with rods is not permitted.
11. If space between footings is less than 12”then a 4”hollow block wall with mortar is to be raised between the footings. Do not combine the footings.
12. Covering blocks of specified thickness must be used (generally 50 mm). Tolerance ¼”.
13. Check the specified development lengths for mat and columns.
14. Mark white enamel 2ft above concreting level at 2 or more places.

Quality Control Check Repot. Stage: Before Casting Footings (Apartments)

S no	Col No	Col type	Pit size	Pit depth	PCC level	Footing size	Footing depth marking	Mat size	Mat steel	Column steel	Development lengths for mat & columns	Pegs for centre-line	Spacing between footings
1.													
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													
11.													
12.													
13.													
14.													
15.													
16.													
17.													
18.													

Quality Control Check Repot. Stage: Before Casting Footings (Apartments)

S no	Col No	Col type	Pit size	Pit depth	PCC level	Footing size	Footing depth marking	Mat size	Mat steel	Column steel	Development lengths for mat & columns	Pegs for centre-line	Spacing between footings
19.													
20.													
21.													
22.													
23.													
24.													
25.													
26.													
27.													
28.													
29.													
30.													
31.													
32.													
33.													
34.													
35.													
36.													
37.													
38.													

Quality Control Check Repot.   Stage: After Column Casting (Apartments)

Block No.		Column No.		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed ad signed by PM?		☐ Yes ☐ No
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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:

1. Inspection should be done after casting of columns at each stage and before starting centering works for each slab.
2. Prepare Columns Position Check Plan as follows:
    a. Divide blocks into smaller sub-blocks.
    b. Show size and orientation of columns. (Tolerance 0.5”)
    c. Show inner – inner space between columns. (Tolerance 1”)
    d. Show diagonals for 20% of bays. (Tolerance 1.5”)
    e. Print an A3 size plan.
3. 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:

1. Prepare Slab (or plinth beams) Dimensions Check Plan as follows:
    a. Show outer dimensions of slab. (Tolerance 2”)
    b. Show length and width of balconies (Tolerance 1”)
    c. Show inner dimensions of ducts and lift well. (Tolerance 1”)
    d. Show location of sunken slab.
    e. Print an A3 size plan.
2. 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?	

Quality Control Check Repot. Stage: After Column Casting (Apartments)

Quality of centering, rod bending and concreting.

Quality of centering, rod bending and concreting?	☐ Good ☐ Avg. ☐ Bad
Quality of starters?	☐ Good ☐ Avg. ☐ Bad
Number and size of honey combs?	☐ High ☐ Medium. ☐ Low
Are the honey combs is slab and columns packed?	☐ Good ☐ Avg. ☐ Bad
Number of beams that are sagging, bulging, caved or deflected in the slab by more than 1”	
Have 6 cubes each for columns and slab casted and numbered for testing?	☐ Yes ☐ No
Remarks:	

Curing.

Bunds for curing made on slab?	☐ Yes ☐ No
Bund size is less than 100 sft?	☐ Yes ☐ No
Drum (200 lts) provided for curing?	☐ Yes ☐ No
Gunny bags used for column curing?	☐ Yes ☐ No
Distance of tap from further distance that requires curing. (max permitted 100’)	
Frequency of curing in number of times a day (enquire from labourers)	
Is the pressure in the curing pipe more than 15’ head?	☐ Yes ☐ No
Quality of infrastructure for curing.	☐ Good ☐ Avg. ☐ Bad
Remarks:	

Quality Control Check Repot.   Stage: After Column Casting (Apartments)

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".
7. Mark with white enamel 2ft above concreting level at 2 or more places.

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.										☐ Yes ☐ No
2.										☐ Yes ☐ No
3.										☐ Yes ☐ No
4.										☐ Yes ☐ No
5.										☐ Yes ☐ No
6.										☐ Yes ☐ No
7.										☐ Yes ☐ No
8.										☐ Yes ☐ No
9.										☐ Yes ☐ No
10.										☐ Yes ☐ No
11.										☐ Yes ☐ No
12.										☐ Yes ☐ No
13.										☐ Yes ☐ No
14.										☐ Yes ☐ No
15.										☐ Yes ☐ No
16.										☐ Yes ☐ No
17.										☐ Yes ☐ No

Quality Control Check Repot.   Stage: After Column Casting (Apartments)

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	
18.										☐ Yes ☐ No
19.										☐ Yes ☐ No
20.										☐ Yes ☐ No
21.										☐ Yes ☐ No
22.										☐ Yes ☐ No
23.										☐ Yes ☐ No
24.										☐ Yes ☐ No
25.										☐ Yes ☐ No
26.										☐ Yes ☐ No
27.										☐ Yes ☐ No
28.										☐ Yes ☐ No
29.										☐ Yes ☐ No
30.										☐ Yes ☐ No
31.										☐ Yes ☐ No
32.										☐ Yes ☐ No
33.										☐ Yes ☐ No
34.										☐ Yes ☐ No
35.										☐ Yes ☐ No
36.										☐ Yes ☐ No
37.										☐ Yes ☐ No
38.										☐ Yes ☐ No
39.										☐ Yes ☐ No

Quality Control Check Repot.   Stage: After Column Casting (Apartments)

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	
40.										☐ Yes ☐ No
41.										☐ Yes ☐ No
42.										☐ Yes ☐ No
43.										☐ Yes ☐ No
44.										☐ Yes ☐ No
45.										☐ Yes ☐ No
46.										☐ Yes ☐ No
47.										☐ Yes ☐ No
48.										☐ Yes ☐ No
49.										☐ Yes ☐ No
50.										☐ Yes ☐ No
51.										☐ Yes ☐ No
52.										☐ Yes ☐ No
53.										☐ Yes ☐ No
54.										☐ Yes ☐ No
55.										☐ Yes ☐ No
56.										☐ Yes ☐ No
57.										☐ Yes ☐ No
58.										☐ Yes ☐ No
59.										☐ Yes ☐ No
60.										☐ Yes ☐ No
61.										☐ Yes ☐ No

Quality Control Check Repot. Stage: After Column Casting (Apartments)

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	
62.										☐ Yes ☐ No
63.										☐ Yes ☐ No
64.										☐ Yes ☐ No
65.										☐ Yes ☐ No
66.										☐ Yes ☐ No
67.										☐ Yes ☐ No
68.										☐ Yes ☐ No
69.										☐ Yes ☐ No
70.										☐ Yes ☐ No
71.										☐ Yes ☐ No
72.										☐ Yes ☐ No
73.										☐ Yes ☐ No
74.										☐ Yes ☐ No
75.										☐ Yes ☐ No
76.										☐ Yes ☐ No
77.										☐ Yes ☐ No
78.										☐ Yes ☐ No
79.										☐ Yes ☐ No
80.										☐ Yes ☐ No
81.										☐ Yes ☐ No
82.										☐ Yes ☐ No
83.										☐ Yes ☐ No

Quality Control Check Repot.   Stage: After Column Casting (Apartments)

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	
84.										☐ Yes ☐ No
85.										☐ Yes ☐ No
86.										☐ Yes ☐ No
87.										☐ Yes ☐ No
88.										☐ Yes ☐ No
89.										☐ Yes ☐ No
90.										☐ Yes ☐ No
91.										☐ Yes ☐ No
92.										☐ Yes ☐ No
93.										☐ Yes ☐ No
94.										☐ Yes ☐ No
95.										☐ Yes ☐ No
96.										☐ Yes ☐ No
97.										☐ Yes ☐ No
98.										☐ Yes ☐ No
99.										☐ Yes ☐ No
100.										☐ Yes ☐ No
101.										☐ Yes ☐ No
102.										☐ Yes ☐ No
103.										☐ Yes ☐ No
104.										☐ Yes ☐ No
105.										☐ Yes ☐ No

Quality Control Check Repot.   Stage: After Plumbing & Electrical (Apartments)

Flat No.		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM?		☐ Yes ☐ No
Additions & alterations sheet date			All pages signed by engineer & customer?		☐ Yes ☐ No
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Inspection should be done after:

- after cleaning the apartment.
- before starting painting, tiling & flooring.
- electrical conduct, waterproofing & plumbing work is completed (for stage II only).
- additions & alterations is finalized and signed. In case there are no additions and alterations printout of email by PM to CR confirming the same must be filed.
- additions & alterations sheets to be transferred to QC file. QC to check if A&A are made as per request.

After Plumbing & Electrical 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. Location of CPVC & PVC fittings must be checked as per measurements given in circular. Tolerance 1”.
6. Location, height and spirit level of electrical points must be checked as per measurements given in circular & plan. Tolerance 1”.
7. Civil work near pipes in balcony & utility must be neat and mortar should be removed from the pipes.
8. Water proofing must cover all pipes & check height above SFL.
9. Fasteners must be used as specified in circular. Especially check fixing of PVC pipes.
10. Height of DB box must be 6” below false ceiling level or 12” below slab level.
11. In case of many changes in civil work, electrical work and plumbing work, a new drawing must be prepared at HO and approved by MD.

Quality Control Check Repot.   Stage: After Plumbing & Electrical (Apartments)

S No	Room	Civil work near pipes in balcony & utility[7] (✔ or ✖)	CPVC & PVC Check[5] (✔ or ✖)	Electrical points check[6] (✔ or ✖)	Water proofing check [8] (✔ or ✖)	Proper use of fasteners check [9] (✔ or ✖)	Placement of DB[10] (✔ or ✖)	Placement of Generator changeover (✔ or ✖)
1	Bedroom 1							
2	Toilet 1							
3	Bedroom 2							
4	Toilet 2							
5	Bedroom 3							
6	Toilet 3							
7	Drawing							
8	Dining							
9	Lobby 1							
10	Utility / balcony 1							
11	Utility / balcony 2							
12	Utility / balcony 3							
13	Kitchen							
14	Other							
15	Other							

Remarks			
Remarks on additions & alteration sheet:			
Signed by engineer,	☐ Yes ☐ No	Signed by customer,	☐ Yes ☐ No
Revised drawing required from HO	☐ Yes ☐ No	Approved revised drawing attached	☐ Yes ☐ No

Miscellaneous check

Screeding done on walls upto 12” outside bathroom/utility	☐ Yes ☐ No
Bathroom /utility filled with 4” water for water proof check	☐ Yes ☐ No
Hole packing done around all pipes in ceiling and internal walls	☐ Yes ☐ No
Remarks:	

Quality Control Check Repot.   Stage: After Finishing Stage III (Apartments)

Flat No		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM		☐ Yes ☐ No
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Inspection should be done after :

- Completing stage II works.
- Complete works like doors, windows, grills, electrical wiring, switches, french door glass, etc.
- In case of modular kitchen provide platform, granite and dado and modular kitchen in this stage.
- Provide video door phone in this stage.
- Possession for wood work cannot be given until QC check for stage III is completed and all corrections mentioned in the report are made.

Miscellaneous check:

Modular kitchen to be provided	☐ Yes ☐ No	Modular kitchen provided	☐ Yes ☐ No
Modular kitchen workman ship	☐ Good ☐ Avg ☐ Poor	Modular kitchen granite & dado workman ship & finishing	☐ Good ☐ Avg ☐ Poor
Video door phone /wifi cam to be provided	☐ Yes ☐ No	Video door phone/wifi cam provided	☐ Yes ☐ No
Painting marks and drops are cleaned from floor, windows, walls.			☐ Good ☐ Avg ☐ Poor

Quality Control Check Repot.   Stage: After Finishing Stage III (Apartments)

		Rate the quality of (Good ✔, Avg. ✕, Poor – needs correction ✕✕, NA)											
S No	Room	Door, door knob & door stopper fitting	Door, door knob & door stopper cleaning	Window grills & quality	Window grills fitting & finishing	Windows quality	Window fitting & finishing	Balcony railing quality & finishing	French door quality & fitting	CP jali quality and fitting	Edge building	Switch boards fitting & covering with plastic covers	Junction box covers painting
1	Bedroom 1												
2	Bedroom 2												
3	Bedroom 3												
4	Drawing												
5	Dining												
6	Lobby 1												
7	Utility / balcony 1												
8	Utility / balcony 2												
9	Utility / balcony 3												
10	Kitchen												
11	Toilet 1												
12	Toilet 2												
13	Toilet 3												
14	Other												
15	Other												
Remarks													

Quality Control Check Repot.   Stage: Before Casting Slab (Apartments)

Block No		Slab No.		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Receipt at HO date		Copy sent to site on		Sign	
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Slab Check.

Notes:

1. Inspection should be done before casting of slab at each stage i.e. when the slab is ready for casting.
2. Prepare Slab Dimensions Check Plan as follows:
    a. Show outer dimensions of slab. (Tolerance 2”)
    b. Show length and width of balconies (Tolerance 1”)
    c. Show inner dimensions of ducts. (Tolerance 1”)
    d. Show location of sunken slab.
    e. Print an A3 size plan.
3. Mid landing height is no. of risers x riser height. Measure from SFL to SFL. Check staircase of lower floor that has been casted.
4. 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	
Staircase – mid landing 1	Specified ht:	Actual ht:	Within tolerance of ½”? ☐ Yes ☐ No
Staircase – mid landing 2	Specified ht:	Actual ht:	Within tolerance of ½”? ☐ Yes ☐ No
Staircase width	Specified wd:	Actual wd:	Within tolerance of ½”? ☐ Yes ☐ No
Staircase slab thickness	Specified:	Actual:	Within tolerance of ¼”? ☐ Yes ☐ No
Slab to slab height	Specified:	Actual:	Within tolerance of ½”? ☐ Yes ☐ No

Quality Control Check Repot.   Stage: Before Casting Slab (Apartments)

Quality of centering, rod bending and concreting.

Quality of centering, rod bending and concreting?	☐ Good ☐ Avg. ☐ Bad
18”extension to beam bottom runners on outer side provided?	☐ Yes ☐ No
Quality of Bracing Provided?	☐ Good ☐ Avg. ☐ Bad
Alignment of beams on outer side?	☐ Good ☐ Avg. ☐ Bad
Shuttering leveling?	☐ Good ☐ Avg. ☐ Bad
Column steel overlapping and cranking? (overlapping length should be 45 to 50 D)	☐ Correct ☐ Needs correction
Remarks:	

Slab Steel 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. Columns overlapping length should be 45 to 50 D.
6. MS strips should be used for filling gaps.
7. Thermocol sheet should be used for electrical junctions.

Quality Control Check Repot.   Stage: Before Casting Slab (Apartments)

S No	Item	Quantitative Check (✔ or ✘)	Qualitative Check (Good / Avg. / Bad)
1.	Steel Check - Beam no of rods		☐ Good ☐ Avg. ☐ Bad
2.	Steel Check - Beam size of bars		☐ Good ☐ Avg. ☐ Bad
3.	Steel Check - Beams Extra Bars		☐ Good ☐ Avg. ☐ Bad
4.	Steel Check - Beams Overlapping & Cranking		☐ Good ☐ Avg. ☐ Bad
5.	Steel Check - Beams Bearing		
6.	Covering blocks for beams		☐ Good ☐ Avg. ☐ Bad
7.	Depth and width of beams		☐ Good ☐ Avg. ☐ Bad
8.	Steel Check - Slab size of bars		☐ Good ☐ Avg. ☐ Bad
9.	Steel Check - Slab spacing of bars		☐ Good ☐ Avg. ☐ Bad
10.	Steel Check – Slab cranking & chairs		☐ Good ☐ Avg. ☐ Bad
11.	Steel Check - Slab Extra Bars		☐ Good ☐ Avg. ☐ Bad
12.	Covering blocks for slab		☐ Good ☐ Avg. ☐ Bad
13.	Steel Check - Column steel overlapping length and cranking		☐ Good ☐ Avg. ☐ Bad
14.	Electrical Conducting		☐ Good ☐ Avg. ☐ Bad
15.	Steel check – floating columns		☐ Good ☐ Avg. ☐ Bad
16.	Steel check – slab extensions/ joints		☐ Good ☐ Avg. ☐ Bad

Remarks:

Quality Control Check Repot.   Stage: After Plastering (Apartments)

Flat No.		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed ad signed by PM?		
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.					

Inspection should be done after:

- brickwork & 2 coats plastering is completed
- after cleaning the villa.
- Water proofing, screeding in bathrooms is completed.
- before starting painting, tiling & flooring.

Plastering 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. 9”unplastered area from SFL should be left including in common areas and terraces.
6. Windows must be checked with templates. Plastering must be 3mm margin for luppum work. Tolerance ¼”.
7. Provision of tiles in bathrooms, kitchen & wash areas (rough plastering).
8. Check size of sink bowl. Hole should be 1” to 2” larger. (Tolerance: 1”)
9. All doors frames should have ½”grooves.
10. Sill top must me of uniform thickness, correct height, at one level & without broken edges.

Quality Control Check Repot.   Stage: After Plastering (Apartments)

S No	Room	Skirting Provision (✓ or ✗)	Furnishing around door frame (✓ or ✗)	Beams & columns finishing (✓ or ✗)	Finishing of lofts (✓ or ✗)	Electricity junctions finishing (✓ or ✗)	Windows check (✓ or ✗)	Tiles provision (✓ or ✗)	Sink provision & size (✓ or ✗)	Grooves for door frames (✓ or ✗)	Balcony & terrace sill top finishing (✓ or ✗)	Screeding in bathroom & utility (✓ or ✗)	Screeding in 6” above FFL? (✓ or ✗)
1	Bedroom 1												
2	Toilet 1												
3	Bedroom 2												
4	Toilet 2												
5	Bedroom 3												
6	Toilet 3												
7	Bedroom 4												
8	Toilet 4												
9	Drawing												
10	Dining												
11	Lobby 1												
12	Lobby 2												
13	Terrace/ balcony 1												
14	Terrace / balcony 2												
15	Terrace / balcony 3												
16	Portico												
17	Kitchen												
18	Other												
Remarks													

Quality Control Check Repot.   Stage: After Finishing Stage II (Apartments)

Flat No		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM		☐ Yes ☐ No
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Inspection should be done after:

- Completion of flooring, bathroom /utility tiles, first coat of paint.
- Completion of doors, windows, grills, electrical wiring, switches must be done in next stage
- False ceiling must be completed before flooring.
- Kitchen platform, granite and dado must be completed where modular kitchen is not provided.
- Provide granite soffit for main door and balconies in this stage.

Miscellaneous check:

Main door fixed with lock & stopper	☐ Yes ☐ No		
Granite soffit for balcony required	☐ Yes ☐ No	Granite soffit for balcony provided	☐ Yes ☐ No
Balcony granite soffit workmanship	☐ Good ☐ Avg ☐ Poor	Balcony granite soffit edge polishing	☐ Good ☐ Avg ☐ Poor
Granite soffit for main door required	☐ Yes ☐ No	Granite soffit for main door provided	☐ Yes ☐ No
Main door granite soffit workmanship	☐ Good ☐ Avg ☐ Poor	Main door granite soffit edge polishing	☐ Good ☐ Avg ☐ Poor

Quality Control Check Repot. Stage: After Finishing Stage II (Apartments)

	Tiling & granite work	Rate the quality of (Good ✔, Avg. ✕, Poor – needs correction ✕✕, NA)												
S No	Room	Workmanship of tiling	White cement filling around CPVC lines	Corners finishing	Finishing near doors	Finishing on top of tiles	Finishing near ventilators	Step at bathroom entrance / utility	Step for shower / pot wash	Tile joint grouting	Granite platform finishing and edge polishing	Granite platform slope	Granite platform height	Finishing under granite platform
1	Toilet 1													
2	Toilet 2													
3	Toilet 3													
4	Toilet 4													
5	Wash basin in dining area													
6	Kitchen													
7	Utility													
8	Other													
9	Other													
Remarks														

Quality Control Check Repot.   Stage: After Finishing Stage II (Apartments)

	Flooring & painting		Rate the quality of (Good ✓, Avg. ✗, Poor – needs correction ✗✗, NA)											
S No	Room	Color variation of floor tiles	Flooring workman ship & grouting	Skirting size (3")	Skirting workmanship	Plastering above skirting	Plastering & finishing of walls	Crack filling	Loft Finishing	Windows check	General quality of painting & finishing	Door & frame painting quality	Door beading, luppam and painting quality.	Edge building
1	Bedroom 1													
2	Bedroom 2													
3	Bedroom 3													
4	Drawing													
5	Dining													
6	Lobby 1													
7	Utility / balcony 1													
8	Utility / balcony 2													
9	Utility / balcony 3													
10	Kitchen													
11	Other													
12	Other													

	Remarks

<u>Self check - Quality Control Check Repot.Stage: After Plastering (Villas)</u>

Villa No		Stage		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM?		
QC engineer name		Sign		Date	

Inspection should be done after:

- brickwork & 2 coats plastering is completed
- after cleaning the villa.
- Water proofing, screeding in bathrooms is completed.
- before starting painting, tiling & flooring.

<u>Plastering Check.</u>

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. 9”unplastered area from SFL should be left including in common areas and terraces.
6. Windows must be checked with templates. Tolerance ¼”.
7. Provision of tiles in bathrooms, kitchen & wash areas (rough plastering).
8. Check size of sink bowl. Hole should be 1” to 2” larger. (Tolerance: 1”)
9. All doors frames should have ½”grooves.
10. Sill top must me of uniform thickness, correct height, at one level & without broken edges.

Self check - Quality Control Check Repot.Stage: After Plastering (Villas)

S No	Room	Skirting Provision (✓ or ✗)	Furnishing around door frame (✓ or ✗)	Beams & columns finishing (✓ or ✗)	Finishing of lofts (✓ or ✗)	Electricity junctions finishing (✓ or ✗)	Windows check (✓ or ✗)	Tiles provision (✓ or ✗)	Sink provision & size (✓ or ✗)	Grooves for door frames (✓ or ✗)	Balcony & terrace sill top finishing (✓ or ✗)	Screeding in bathroom & utility (✓ or ✗)	Screeding in 6” above FFL? (✓ or ✗)
1	Bedroom 1												
2	Toilet 1												
3	Bedroom 2												
4	Toilet 2												
5	Bedroom 3												
6	Toilet 3												
7	Bedroom 4												
8	Toilet 4												
9	Drawing												
10	Dining												
11	Lobby 1												
12	Lobby 2												
13	Terrace/ balcony 1												
14	Terrace / balcony 2												
15	Terrace / balcony 3												
16	Portico												
17	Kitchen												
18	Other												
Remarks													

<u>Self check - Quality Control Check Repot.Stage: After Plastering (Villas)</u>

Miscellaneous check

Overall quality of plastering?	☐ Good ☐ Avg. ☐ Bad
Plastering of compound wall & gate pillars (✔ or ✖)	
Is plastering of compound wall and villa external wall 6” below FFL of setbacks?	☐ Yes ☐ No
Plastering quality of parapet walls (✔ or ✖)	
Plastering and finishing of chajjas (✔ or ✖)	
Terrace/parapet wall tor steel is covered with mortar and steel is not exposed	☐ Yes ☐ No
Remarks:	

<u>Quality Control Check Repot.   Stage: Before Casting Footings (Villas)</u>

Block No		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM?		
Approved by MD on date		Sign		For filling	☐ Yes ☐ 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.

<u>Quality of centering, rod bending and marking.</u>

Quality of centering, rod bending and marking?	☐ Good ☐ Avg. ☐ Bad
Remarks:	

<u>Curing.</u>

Tap provide at bungalow for curing.	☐ Yes ☐ No
Distance of tap from furthest distance that requires curing. (max permitted 100’)	
Source of water	☐ Sump ☐ OHT ☐ Bore-well direct connection ☐ None
Frequency of curing in number of times a day (enquire from labourers)	
Quality of infrastructure for curing.	☐ Good ☐ Avg. ☐ Bad
Remarks:	

Covering blocks check.

Specified size of covering blocks		Actual size of covering blocks being used	
Remarks:			

Earth Work Check.

Quality of earth work?	☐ Good ☐ Avg. ☐ Bad	Excess earth shifted away from site?	☐ Yes ☐ No
Remarks:			

Footings 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. Pit size should be 6” to 12”more than the footings size on all sides.
6. Excess earth must be shifted away from footings area.
7. Depth should be more than or equal to the specified depth. Keep in mind PCC thickness & sand filling wrt to road FFL.
8. PCC should be 3”more than the footing size (or as specified) and in one level. (Level tolerance 1”)
9. Footing size & depth tolerance is 1”. Depth of footing must be marked by paint on column steel.
10. Proper pegs must be made for centerline marking on all sides in CRS or brickwork. Marking with rods is not permitted.
11. If space between footings is less than 12”then a 4”hollow block wall with mortar is to be raised between the footings. Do not combine the footings.
12. Covering blocks of specified thickness must be used (generally 50 mm). Tolerance ¼”.
13. Check the specified development lengths for mat and columns.
14. Mark with white enamel 2ft above concreting level at 2 or more places.

Quality Control Check Repot. Stage: Before Casting Footings (Villas)

S no	Col No	Col type	Pit size	Pit depth	PCC level	Footing size	Footing depth marking	Mat size	Mat steel	Column steel & stirrups	Development lengths for mat & columns	Pegs for centre-line	Spacing between footings
1.													
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													
11.													
12.													
13.													
14.													
15.													
16.													
17.													
18.													
19.													
20.													
21.													
22.													
23.													

Quality Control Check Repot.   Stage: After Brickwork (Villas)

Villa No		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous state report no,			Report filed and signed by PM?		
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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					

Inspection should be done after:

- Brickwork, CRS for compound wall, compound wall ang gate pillars are completed.
- chicken mesh fixed
- after cleaning the bungalow.
- external scaffolding tied.
- external brickwork & beam joints filling completed.
- electrical conducting work is completed (except bathrooms).

<u>Brickwork Check.</u>

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. Wall thickness should be as per plan. Use of 4”and 6”blocks must be checked.
6. All walls should have 2 beds of about 2”to 3”thickmess with one no. 6 mm or 8 mm rod with M15 CC.
7. Chicken mesh should be used in each and every joint between RCC & Brickwork.
8. Joint between brickwork & beam on external side must be filled.
9. Check room dimensions with working plan. (Tolerance: 1”)
10. Diagonals of each room shall be equal. (Tolerance: 2”)
11. Balcony sill level should be 3’3”from SFL. (Tolerance: 1”)
12. Check room height with specified height. (Tolerance: 1”)
13. Check plumb of walls where ever it appears to be out of plumb. (Tolerance: 1/2”)
14. Specify the No. of beams which are not aligned by more than 1”in a room.
15. Door frames must have black Japan coating and wood primer / pellambar – at cost of painter.
16. Setbacks must be levelled atleast 6” below FFL of setbacks to ensure plastering in 6” below FFL.

Quality Control Check Repot.   Stage: After Brickwork (Villas)

S No	Room	Wall thickness (✓ or ✕)	Beds in walls (✓ or ✕)	Chicken mesh (✓ or ✕)	External brickwork & beam joint (✓ or ✕)	Room Dimensions (✓ or ✕)	Room Dimensions- Difference in inches	Diagonal (✓ or ✕)	Diagonal Difference in inches	Balcony sill level (✓ or ✕)	Room Height (✓ or ✕)	Plumb of walls (Good/Avg./Bad)	Alignment of beams and walls - Nos.
1	Bedroom 1												
2	Toilet 1												
3	Bedroom 2												
4	Toilet 2												
5	Bedroom 3												
6	Toilet 3												
7	Bedroom 4												
8	Toilet 4												
9	Drawing												
10	Dining												
11	Lobby 1												
12	Lobby 2												
13	Terrace/ balcony 1												
14	Terrace / balcony 2												
15	Terrace / balcony 3												
16	Portico												
17	Kitchen												
18	Other												
19	Other												
Remarks													

Quality of edges and corners in all rooms?	☐ Good ☐ Avg. ☐ Bad
Specify rooms that need correction:	

Chajjas Quality Check

Notes: Width of chajja should be 6”more than the width or the door or window.

Total Nos. of Chajjas	Slopes incorrect – nos.	Thickness incorrect –nos	Width incorrect - nos.	Height in correct - nos
Remarks				

Door Frames & Windows 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. Window template depth should be between 2 to 2 ½”after plastering.
6. Lentil level should be 7’3”from SFL & 7’from FFL. (Tolerance 1”)
7. Lofts should be at a height of 7’to 7’3” from FFL. Kitchen plat form thickness should be 2”, SFL to bottom 31”. (Tolerance 1”)
8. Slopes of lofts and kitchen platforms to be checked by using 12”spirit level and check height from floor from 2 or 3 points.
9. Thickness of platforms & lofts should be between 2 & 2.5”.
10. Provide single layer table brick at bottom of each door frame without threshold.
11. Check Z angle template size.
12. Window opening must be checked with MS square pipe templates of 2 sizes for inner and outer openings.
13. Z angle template must be 1” from brick wall surface from the inner side.

Quality Control Check Repot.   Stage: After Brickwork (Villas)

S No	Room	Door size, face and position (✓ or ✗)	Brick at bottom of door frame10 (✓ or ✗)	Door lentil level (✓ or ✗)	Door diagonal check (✓ or ✗)	Door Plumb - two sides (✓ or ✗)	Door frame black Japan/ wood primer/Peelambar check (✓ or ✗)	Windows lentil & sill level (✓ or ✗)	Windows size (✓ or ✗)	Windows - template depth & diagnal[5] (✓ or ✗)	Windows - template powder coated (✓ or ✗)	Loft & Kitchen platform required ?(✓ or ✗)	Loft & Kitchen platform provided (✓ or ✗)	Loft & Kitchen platform slope (✓ or ✗)
1	Bedroom 1													
2	Toilet 1													
3	Bedroom 2													
4	Toilet 2													
5	Bedroom 3													
6	Toilet 3													
7	Bedroom 4													
8	Toilet 4													
9	Drawing													
10	Dining													
11	Lobby 1													
12	Lobby 2													
13	Terrace/ balcony 1													
14	Terrace / balcony 2													
15	Terrace / balcony 3													
16	Portico													
17	Kitchen													
18	Other													
19	Other													

	Remarks:

Quality Control Check Repot.   Stage: After Brickwork (Villas)

Misc. Checks.

Was 3.75 CFT proportion box provided?	☐ Yes ☐ No
Condition of proportion box?	☐ Good ☐ Avg. ☐ Bad
Was the villa cleaned before starting brick work?	☐ Yes ☐ No ☐ Cant' say
Is the bungalow cleaned for plastering?	☐ Yes ☐ No
Wastage?	☐ High ☐ Medium ☐ Low
Storage of building material like bricks sand and cement.	☐ Good ☐ Avg. ☐ Bad
Drum (200 lts) provided for curing in each bungalow?	☐ Yes ☐ No
Remarks:	

Compound wall check

CRS + bed – specified level below FFL.	Actual level below FFL.
Specified compound wall height above FFL.	Actual level below FFL.
Quality and level of PCC on ground floor?	☐ Good ☐ Avg. ☐ Bad
Quality and level of PCC for portico?	☐ Good ☐ Avg. ☐ Bad
Is leveling in the setbacks of the villa 6" below FFL?	☐ Yes ☐ No
Specified height of gate columns	Actual height provided
Specified distance between gate columns	Actual distance provided
Chicken mesh provided on external joints of villa (✔ or ✖)	
Parapet wall thickness, height and design (✔ or ✖)	
Parapet and compound wall railing design quality, fitting & redoxide painting (✔ or ✖)	
Remarks:	

Quality Control Check Repot. Stage: Before Casting Slab (villas)

Villa No		Slab No.		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Receipt at HO date		Copy sent to site on		Sign	
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Slab Check.

Notes:

1. Inspection should be done before casting of slab at each stage i.e. when the slab is ready for casting.
2. Prepare Slab Dimensions Check Plan as follows:
    a. Show outer dimensions of slab. (Tolerance 2”)
    b. Show length and width of balconies (Tolerance 1”)
    c. Show inner dimensions of ducts. (Tolerance 1”)
    d. Show location of sunken slab.
    e. Print an A3 size plan.
3. Mid landing height is no. of risers x riser height. Measure from SFL to SFL. Check staircase of lower floor that has been casted.
4. 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			
Staircase – mid landing 1	Specified ht:	Actual ht:	Within tolerance of ½”?	☐ Yes	☐ No
Staircase – mid landing 2	Specified ht:	Actual ht:	Within tolerance of ½”?	☐ Yes	☐ No
Staircase width	Specified wd:	Actual wd:	Within tolerance of ½”?	☐ Yes	☐ No
Staircase slab thickness	Specified:	Actual:	Within tolerance of ¼”?	☐ Yes	☐ No
Slab to slab height	Specified:	Actual:	Within tolerance of ½”?	☐ Yes	☐ No

Quality Control Check Repot. Stage: Before Casting Slab (villas)

Quality of centering, rod bending and concreting.

Quality of centering, rod bending and concreting?	☐ Good ☐ Avg. ☐ Bad
18"extension to beam bottom runners on outer side provided?	☐ Yes ☐ No
Quality of Bracing Provided?	☐ Good ☐ Avg. ☐ Bad
Alignment of beams on outer side?	☐ Good ☐ Avg. ☐ Bad
Shuttering leveling?	☐ Good ☐ Avg. ☐ Bad
Column steel overlapping and cranking? (overlapping length should be 45 to 50 D)	☐ Correct ☐ Needs correction
Remarks:	

Slab Steel 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. Columns overlapping length should be 45 to 50 D.

Quality Control Check Repot.   Stage: Before Casting Slab (villas)

S No	Item	Quantitative Check (✔ or ✘)	Qualitative Check (Good / Avg. / Bad)
1.	Steel Check - Beam no of rods		☐ Good ☐ Avg. ☐ Bad
2.	Steel Check - Beam size of bars		☐ Good ☐ Avg. ☐ Bad
3.	Steel Check - Beams Extra Bars		☐ Good ☐ Avg. ☐ Bad
4.	Steel Check - Beams Overlapping & Cranking		☐ Good ☐ Avg. ☐ Bad
5.	Steel Check - Beams Bearing		
6.	Covering blocks for beams		☐ Good ☐ Avg. ☐ Bad
7.	Depth and width of beams		☐ Good ☐ Avg. ☐ Bad
8.	Steel Check - Slab size of bars		☐ Good ☐ Avg. ☐ Bad
9.	Steel Check - Slab spacing of bars		☐ Good ☐ Avg. ☐ Bad
10.	Steel Check – Slab cranking & chairs		☐ Good ☐ Avg. ☐ Bad
11.	Steel Check - Slab Extra Bars		☐ Good ☐ Avg. ☐ Bad
12.	Covering blocks for slab		☐ Good ☐ Avg. ☐ Bad
13.	Steel Check - Column steel overlapping length and cranking		☐ Good ☐ Avg. ☐ Bad
14.	Electrical Conducting		☐ Good ☐ Avg. ☐ Bad
15.	Steel check – floating columns		☐ Good ☐ Avg. ☐ Bad
16.	Steel check – slab extensions/ joints		☐ Good ☐ Avg. ☐ Bad
17.	MS strips used for filling gaps		☐ Yes ☐ No
18.	Thermocol sheet used for electrical junctions		☐ Yes ☐ No
Remarks:			

Quality Control Check Repot.   Stage: After Finishing Stage II (Villas)

Villa No		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM		☐ Yes ☐ No
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Inspection should be done after:

- Completion of flooring, bathroom /utility tiles, first coat of paint.
- Completion of doors, windows, grills, electrical wiring, switches must be done in next stage
- False ceiling must be completed before flooring.
- Kitchen platform, granite and dado must be completed where modular kitchen is not provided.
- Provide granite soffit for main door and balconies in this stage.

Miscellaneous check:

Main door fixed with lock & stopper	☐ Yes ☐ No		
Granite soffit for balcony required	☐ Yes ☐ No	Granite soffit for balcony provided	☐ Yes ☐ No
Main door granite soffit workmanship	☐ Good ☐ Avg ☐ Poor	Main door granite soffit edge polishing	☐ Good ☐ Avg ☐ Poor

Quality Control Check Repot.   Stage: After Finishing Stage II (Villas)

	Tiling & granite work	Rate the quality of (Good ✔, Avg. ✘, Poor – needs correction ✘✘, NA)												
S No	Room	Workmanship of tiling	White cement filling around CPVC lines	Corners finishing	Finishing near doors	Finishing on top of tiles	Finishing near ventilators	Step at bathroom entrance / utility	Step for shower / pot wash	Tile joint grouting	Granite platform finishing and edge polishing	Granite platform slope	Granite platform height	Finishing under granite platform
1	Toilet 1													
2	Toilet 2													
3	Toilet 3													
4	Toilet 4													
5	Wash basin in dining area													
6	Kitchen													
7	Utility													
8	Other													
9	Other													
Remarks														

Quality Control Check Repot.   Stage: After Finishing Stage II (Villas)

	Flooring & painting		Rate the quality of (Good ✓, Avg. ✕, Poor – needs correction ✕✕, NA)											
S No	Room	Color variation of floor tiles	Flooring workman ship & grouting	Skirting size (3”)	Skirting workmanship	Plastering above skirting	Plastering & finishing of walls	Crack filling	Loft Finishing	Windows check	General quality of painting & finishing	Door & frame painting quality	Door beading, luppam and painting quality.	Edge building
1	Bedroom 1													
2	Bedroom 2													
3	Bedroom 3													
4	Drawing													
5	Dining													
6	Lobby 1													
7	Utility / balcony 1													
8	Utility / balcony 2													
9	Utility / balcony 3													
10	Kitchen													
11	Other													
12	Other													

	Remarks

Quality Control Check Repot.   Stage: After Finishing Stage II (Villas)

Miscellaneous check – after finishing stage II

Quality and workmanship of portico tiles	☐ Good ☐ Avg ☐ Poor
Quality and workmanship of flooring & setback	☐ Good ☐ Avg ☐ Poor
Quality and workmanship of external cladding /texture	☐ Good ☐ Avg ☐ Poor
Level of manhole covers	☐ Good ☐ Avg ☐ Poor
Provision of earth pit and manhole cover	☐ Good ☐ Avg ☐ Poor
Remarks:	

Quality Control Check Repot.   Stage: After Plumbing & Electrical (Villas)

Villa No.		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM?		☐ Yes ☐ No
Additions & alterations sheet date			All pages signed by engineer & customer?		☐ Yes ☐ No
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Inspection should be done after:

- after cleaning the apartment.
- before starting painting, tiling & flooring.
- electrical conduct, waterproofing & plumbing work is completed (for stage II only).
- additions & alterations is finalized and signed. In case there are no additions and alterations printout of email by PM to CR confirming the same must be filed.
- additions & alterations sheets to be transferred to QC file. QC to check if A&A are made as per request.

After Plumbing & Electrical 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. Location of CPVC & PVC fittings must be checked as per measurements given in circular. Tolerance 1”.
6. Location, height and spirit level of electrical points must be checked as per measurements given in circular & plan. Tolerance 1”.
7. Civil work near pipes in balcony & utility must be neat and mortar should be removed from the pipes.
8. Water proofing must cover all pipes & check height above SFL.
9. Fasteners must be used as specified in circular. Especially check fixing of PVC pipes.
10. Height of DB box must be 6” below false ceiling level or 12” below slab level.
11. In case of many changes in civil work, electrical work and plumbing work, a new drawing must be prepared at HO and approved by MD.

Quality Control Check Repot.   Stage: After Plumbing & Electrical (Villas)

S No	Room	Civil work near pipes in balcony & utility (✔ or ✖)	CPVC & PVC Check (✔ or ✖)	Electrical points check (✔ or ✖)	Water proofing check (✔ or ✖)	Proper use of fasteners check (✔ or ✖)	Placement of DB (✔ or ✖)	Placement of Generator changeover (✔ or ✖)
1	Bedroom 1							
2	Toilet 1							
3	Bedroom 2							
4	Toilet 2							
5	Bedroom 3							
6	Toilet 3							
7	Bedroom 4							
8	Toilet 4							
9	Drawing							
10	Dining							
11	Lobby 1							
12	Lobby 2							
13	Terrace / balcony 1							
14	Terrace / balcony 2							
15	Head room							
16	Portico							
17	Kitchen							
18	Utility							
19	Other							

Remarks			
Remarks on additions & alteration sheet:			
Signed by engineer,	☐ Yes ☐ No	Signed by customer,	☐ Yes ☐ No
Revised drawing required from HO	☐ Yes ☐ No	Approved revised drawing attached	☐ Yes ☐ No

Miscellaneous check

Depth of drainage line at compound wall specified:	Depth provided:
Fastners for external PVC/CPVC lines (✔ or ✖)	
Setbacks properly leveled and compacted to 3” below proposed FFL?	☐ Yes ☐ No
Lawn area property leveled and compacted to 9” below lawn FFL?	☐ Yes ☐ No
Electricity pipes for electric power supply & communication provided from compound wall?	☐ Yes ☐ No
Workmanship of drainage lines	☐ Good ☐ Avg. ☐ Poor
Earthing provided?	☐ Yes ☐ No
Screeding done on walls upto 12” outside bathroom/utility	☐ Yes ☐ No
Bathroom /utility filled with 4” water for water proof check	☐ Yes ☐ No
Hole packing done around all pipes in ceiling and internal walls	☐ Yes ☐ No
Hole packing done around all pipes on external walls	☐ Yes ☐ No
Rainwater pipe is 2” below water proofing level	☐ Yes ☐ No
Photograph of OHT/head room water proofing provided	☐ Yes ☐ No
Remarks:	

<u>Quality Control Check Repot.   Stage: After Finishing Stage III (Villas)</u>

Villa No		Other		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM		☐ Yes ☐ No
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

Inspection should be done after :

- Completing stage II works.
- Complete works like doors, windows, grills, electrical wiring, switches, french door glass, etc.
- In case of modular kitchen provide platform, granite and dado and modular kitchen in this stage.
- Provide video door phone in this stage.
- Possession for wood work cannot be given until QC check for stage III is completed and all corrections mentioned in the report are made.

<u>Stage III check notes:</u>

1. Window grills must be fitted at the depth of ¼” from the wall.
2. Switchboards must be fitted to plum.
3. Cover junction boxes with cement covers and not PVC covers. Use pin head type sheet metal screws (not MS).

Miscellaneous check:

Modular kitchen to be provided	☐ Yes ☐ No	Modular kitchen provided	☐ Yes ☐ No
Modular kitchen workman ship	☐ Good ☐ Avg ☐ Poor	Modular kitchen granite & dado workman ship & finishing	☐ Good ☐ Avg ☐ Poor
Video door phone/ wifi cam to be provided	☐ Yes ☐ No	Video door phone/ wifi cam provided	☐ Yes ☐ No

Quality Control Check Repot. Stage: After Finishing Stage III (Villas)

		Rate the quality of (Good ✔, Avg. ✕, Poor – needs correction ✕✕, NA)											
S No	Room	Door, door knob & door stopper fitting	Door, door knob & door stopper cleaning	Window grills & quality	Window grills fitting & finishing	Windows quality	Window fitting & finishing	Balcony railing quality & finishing	French door quality & fitting	CP jali quality and fitting	Edge building	Switch boards fitting & covering with plastic covers	Junction box covers painting
1	Bedroom 1												
2	Bedroom 2												
3	Bedroom 3												
4	Drawing												
5	Dining												
6	Lobby 1												
7	Utility / balcony 1												
8	Utility / balcony 2												
9	Utility / balcony 3												
10	Kitchen												
11	Toilet 1												
12	Toilet 2												
13	Toilet 3												
14	Portico												
15	Other												
Remarks													

Quality Control Check Repot.   Stage: After Finishing Stage III (Villas)

Miscellaneous check – after finishing stage III

Quality and workmanship of gate	☐ Good ☐ Avg ☐ Poor
Quality and workmanship of railings	☐ Good ☐ Avg ☐ Poor
Painting of gates & railings	☐ Good ☐ Avg ☐ Poor
Cleaning, painting of external cladding/texture	☐ Good ☐ Avg ☐ Poor
Hole packing on external surfaces is in order	☐ Good ☐ Avg ☐ Poor
Layout of CPVC & PVC is in order	☐ Good ☐ Avg ☐ Poor
Use of fastners and clips for CPVC & PVC pipes is in order	☐ Good ☐ Avg ☐ Poor
Painting marks and drops are cleaned from floor, windows, walls, portico, setback	☐ Good ☐ Avg ☐ Poor
Correct quality of workmanship of lawn to levelling and compaction for lawn 6” below lawn FFL	☐ Good ☐ Avg ☐ Poor
Remarks:	

<u>**Quality Control Check Report. Stage: After Column Casting (villas)**</u>

Bungalow No.		Column No.		Sl. No.	
Company		Project		Phase	
Prepared by		Sign		Date	
Project Manager		Sign		Date	
Previous stage report no.			Report filed and signed by PM?		
Checked By MD on		MD Sign		For filling	☐ Yes ☐ 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.

<u>Columns Position Check.</u>

Notes:
1. Inspection should be done after casting of columns at each stage and before starting centering works for each slab.
2. Prepare Columns Position Check Plan as follows:
   a. Divide blocks into smaller sub-blocks.
   b. Show size and orientation of columns. (Tolerance 0.5")
   c. Show inner – inner space between columns. (Tolerance 1")
   d. Show diagonals for 20% of bays. (Tolerance 1.5")
   e. Print an A3 size plan.
3. 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

<u>Slab Dimensions Check.</u>

Notes:
1. Prepare Slab (or plinth beams) Dimensions Check Plan as follows:
   a. Show outer dimensions of slab. (Tolerance 2")
   b. Show length and width of balconies (Tolerance 1")
   c. Show inner dimensions of ducts and lift well. (Tolerance 1")
   d. Show location of sunken slab.
   e. Print an A3 size plan.
2. 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?	

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

Quality of centering, rod bending and concreting.

Quality of centering, rod bending and concreting?	☐ Good ☐ Avg. ☐ Bad
Quality of starters?	☐ Good ☐ Avg. ☐ Bad
Number and size of honey combs?	☐ High ☐ Medium. ☐ Low
Are the honey combs in slab and columns packed?	☐ Good ☐ Avg. ☐ Bad
Number of beams that are sagging, bulging, caved or deflected in the slab by more than 1”	
Have 6 cubes each for columns and slab casted and numbered for testing?	☐ Yes ☐ No
Remarks:	

Curing.

Bunds for curing made on slab?	☐ Yes ☐ No
Bund size is less than 100 sft?	☐ Yes ☐ No
Drum (200 lts) provided for curing?	☐ Yes ☐ No
Gunny bags used for column curing?	☐ Yes ☐ No
Distance of tap from further distance that requires curing. (max permitted 100’)	
Frequency of curing in number of times a day (enquire from labourers)	
Is the pressure in the curing pipe more than 15’ head?	☐ Yes ☐ No
Quality of infrastructure for curing.	☐ Good ☐ Avg. ☐ Bad
Remarks:	

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

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”.
7. Mark with white enamel 2ft above concreting level at 2 or more places.

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.										☐ Yes ☐ No
2.										☐ Yes ☐ No
3.										☐ Yes ☐ No
4.										☐ Yes ☐ No
5.										☐ Yes ☐ No
6.										☐ Yes ☐ No
7.										☐ Yes ☐ No
8.										☐ Yes ☐ No
9.										☐ Yes ☐ No
10.										☐ Yes ☐ No
11.										☐ Yes ☐ No
12.										☐ Yes ☐ No
13.										☐ Yes ☐ No
14.										☐ Yes ☐ No
15.										☐ Yes ☐ No
16.										☐ Yes ☐ No
17.										☐ Yes ☐ No