build change

Tumen Rural House Construction Checklist- Confined Masonry Tv

Place__ ___Team _____ Village
Homeowner____ Community
Contractor and its Contacts
Construction Step

From _____ to
Homeowner Signature:
The signature of Construction Site Person in Charge:
Rebuilding___Self-building___Collective building___Overall planning, self-building

Checking Items		Tick		Date Rec.		Date Imp.		Standard	Photo
Contractor Qualification	Registered in construction bureau	Yes	No						Yes/No
	Certificates issued by local government	Yes	No						
Contract	Signed contract	Yes	No						
	With contractor's seal	Yes	No						
Safety Responsibility Agreement	Signed quality & safety responsibility agreement	Yes	No						
	With contractor's seal	Yes	No						
Cement	Local manufactured	Yes	No						
	Sample specimen test for every batch	Yes	No						
	With product certificate,testing report, and invoice	Yes	No						
Steel	Product certificate	Yes	No						
Brick	Reach requirement	Yes	No						
Site Safety	1. Wearing hard hat when entering construction site	Yes	No						
	2. Construction height >1.5m with safety belt	Yes	No						
	3. Safety power utilization, with residual current operated protective devices	Yes	No						
Foundation	1. Excavate to bearing stratum	Yes	No					《GB50007-2002》clause3.0.2; clause 5.1.2	
	2. Depth of foundation≥800mm	Yes	No					《GB50007-2002》clause 5.1.2; clause 8.1.2	
	3. Embedment depth of foundation≥500mm	Yes	No					《GB50007-2002》clause 5.1.2 《BJT20-63》P.5 ——clause 1.7	
	4. Brick masonry footing with tooth	Yes	No					《BJT20-63》P.11	
	5. Horizontal anchor length of longitudinal bar on tie column of pedestle foot foundation to the foot of column ≥10d	Yes	No					《GB50007-2002》clause 8.1.3	
	6. Cement mortar M5 for brick masonry footing	Yes	No					《GB50003-2001》clause 6.2.2	
Plinth Beam	1. Have plinth beam (cross section h x b = 180mm x 240mm)	Yes	No					《GB50011-2008》clause 7.3.4; clause 7.3.13 《GB50011-2008》clause 3.3.4	
	2. Concrete ≥C20	Yes	No					《BJT20-63》P.3 ——clause 8.3	
	3. Longitudinal bars ≥4Φ12	Yes	No					《GB50011-2008》clause 7.3.4	
		First floor	Second floor	First floor	Second floor	First floor	Second floor		
Brickwork	1. Soak bricks in water 1-2 days before construction ≥4	Yes No	Yes No					《GB50203-2002》clause 5.1.4	
	2. The masonry wall is vertically staggered and overlapped outside and inside.	Yes No	Yes No					《GB50203-2002》clause 5.3.1	
	3. Bed joint is straight, head joint is vertical and thickness of the joint is even.	Yes No	Yes No					《GB50203-2002》clause 5.3.2	
	4. Head joint is full (≥80%)	Yes No	Yes No					《GB50203-2002》clause 5.2.2	
	5. Bed joint is full (≥80%)	Yes No	Yes No					《GB50203-2002》clause 5.2.2	
	6. Use cement mortar M5 or composite mortar above plinth beam	Yes No	Yes No					《GB50003-2001》clause 6.2.1	
	7a. Preparation and use of mortar comply with clause 4.0.11 of 《GB50203-2002》	Yes No	Yes No					《GB50203-2002》clause 4.0.11	
	7b. Cement mortar made of Portland cement should be used with 1.5 hours.	Yes No	Yes No						
Wall	1. Thickness of wall=240mm	Yes No	Yes No					《BJT20-63》P.5 ——clause 1.3	
	2. Wall between openings<800mm has strengthening measures	Yes No	Yes No		hi			《BJT20-63》P.3 ——clause 8.5	
	3. Junctions of tie column and wall with tooth, which comply with clause 8.2.3 of GB50203-2002	Yes No	Yes No					《GB50203-2002》clause 8.2.3	
	4. Horizontal reinforcement ≥2Φ6@500, extension into wall 1 m	Yes No	Yes No					《GB50011-2008》clause 7.3.2	
	5. Lintel beam extension into wall ≥240mm	Yes No	Yes No					《GB50011-2008》clause 7.3.10 《BJT20-63》P.3 ——clause8.11	
	6a. 300mm < opening <1200mm, height of lintel beam ≥120mm, 2Φ12 reinforcement	Yes No	Yes No					《GB50003-2001》clause 7.2.1; clause7.2.3 《GB50203-2002》clause 3.0.7 and accurate calculation	
	6b. Opening >1200mm, height of lintel ≥200mm, reinforcement bar at bottom is 2Φ12, reinforcement bar at the top shall be provided according to requirements	Yes No	Yes No					《GB50003-2001》clause 7.2.1; clause7.2.3 and accurate calculation	
	6c. Opening >1800mm, height of lintel≥200mm, reinforcement bar at bottom is 3Φ14,reinforcement at the top shall be provided according to requirements	Yes No	Yes No					《G322-1》and accurate calculatioin	
	7a. Masonry construction at the corner and the junction shall be done at the same time. If this can not happen, askew tooth shall be made. Refer to clause 5.2.3 of 《GB50203-2002》for the method of making askew tooth.	Yes No	Yes No					《GB50203-2002》clause 5.2.3	
	7b. When askew tooth can not be made, straight tooth can be made except the corners. Refer to clause 5.2.3 of 《GB50203-2002》for horizontal reinforcement on the straight tooth and the method for connecting tooth and the other wall.	Yes No	Yes No					《GB50003-2001》clause6.3.4 《GB50011-2008》clause7.3.7	
	8. Deviation of central line is not too big.	Yes No	Yes No					《GB50203-2002》and experience	
	9. Wall and column is aligned.	Yes No	Yes No					《GB50203-2002》	
	10. Wall is level and upright.	Yes No	Yes No					《GB50203-2002》	

Tie Column	1. Have tie column (cross section h x b ≥ 180mm x 240mm)	Yes	No	Yes	No					GB50011-2008\clause 7.3.1	
	2. Arrangement of tie column reaches rules and standards	Yes	No	Yes	No					GB50011-2008\clause 7.3.1	
	3. Adding tie column for room span over 4.2m	Yes	No	Yes	No					GB50011-2008\clause7.1.2; clause7.3.2	
	4. Anchored length of tie column into foundation ≥500mm	Yes	No	Yes	No					GB50011-2008\clause 7.3.2 JGJT13-94\clause 5.1.4	
	5. Concrete ≥C20	Yes	No	Yes	No					DBJT20-63\P.3 —clause 8.3	
	6. Longitudinal bar≥4Φ12	Yes	No	Yes	No					GB50011-2008\clause 7.3.2	
	7. Stirups at closely zone≥Φ6@100, at non closely zone≤Φ6@200	Yes	No	Yes	No					GB50011-2008\clause 7.3.2 JGJT13-94\clause 5.1.2	
	8. Horizontal anchored length of longitudinal bar into ring beam ≥650mm	Yes	No	Yes	No					Data provided by Wanzhu City Construction Bureau	
Ring Beam	1. Have ring beam (cross section h x b ≥ 120mm x 240mm)	Yes	No	Yes	No					GB50003-2001\clause 6.3.2; clause 7.1.1 GB50011-2008\clause 7.3.4 DBJT20-63\P.3 —clause 8.6	
	2. Concrete≥C20	Yes	No	Yes	No					DBJT20-63\P.3 —clause 8.3	
	3. Longitudinal bar ≥4Φ10	Yes	No	Yes	No					GB50011-2008\clause 7.3.4 DBJT20-63\P.3 —clause 8.6	
Stair	1. Staircase should not be built at the ends and the corners of the house.	Yes	No	Yes	No					GB50011-2008\clause 7.1.7	
	2. The construction of staircase should not influence load bearing wall.	Yes	No	Yes	No					GB50011-2008\clause 7.1.7	
	3a. Cast-in-place slab stair	Yes	No	Yes	No					Application decided by homeowners according to their practical situation	
	3b. Thickness of cast-in-place slab reaches to 100mm	Yes	No	Yes	No					03G101-2\P.17	
	3c. Longitudinal bar at the bottom reaches Φ8@100, horizontal bar reaches Φ6@200.	Yes	No	Yes	No					03G101-2\P.17	
	3d. Longitudinal bar at the top of the support reaches Φ8@200 and covers 1/4 of clear span of the stair board. Horizontal bar reaches Φ6@200.	Yes	No	Yes	No					03G101-2\P.17	
	3e.Concrete ≥C20	Yes	No	Yes	No					DBJT20-63\P.3 —clause 8.3	
Cast-in-place Concrete Slab	1. Cast-in-place concrete slab	Yes	No	Yes	No					Priority according to practical situation	
	2. Thickness of concrete slab	100mm	120mm	100mm	120mm					GB50010-2002\clause 10.1.1	
		<100mm	>120mm	<100mm	>120mm						
	3. Roof slab bottom reinforcement:Φ^R 10@150	Yes	No	Yes	No					Through PKPM calculation	
	4. Roof slab top reinforcement:Φ^R 8@200	Yes	No	Yes	No					Through PKPM calculation	
	5. Concrete≥C20	Yes	No	Yes	No					DBJT20-63\P.3 —clause 8.3	
	6. Waterproofed	Yes	No	Yes	No					Confirmed by homeowner's requirement	

Meets Local Requirements Yes No Date_____ Approved By_____

Meets Minimum Yes No Date_____ Approved By_____