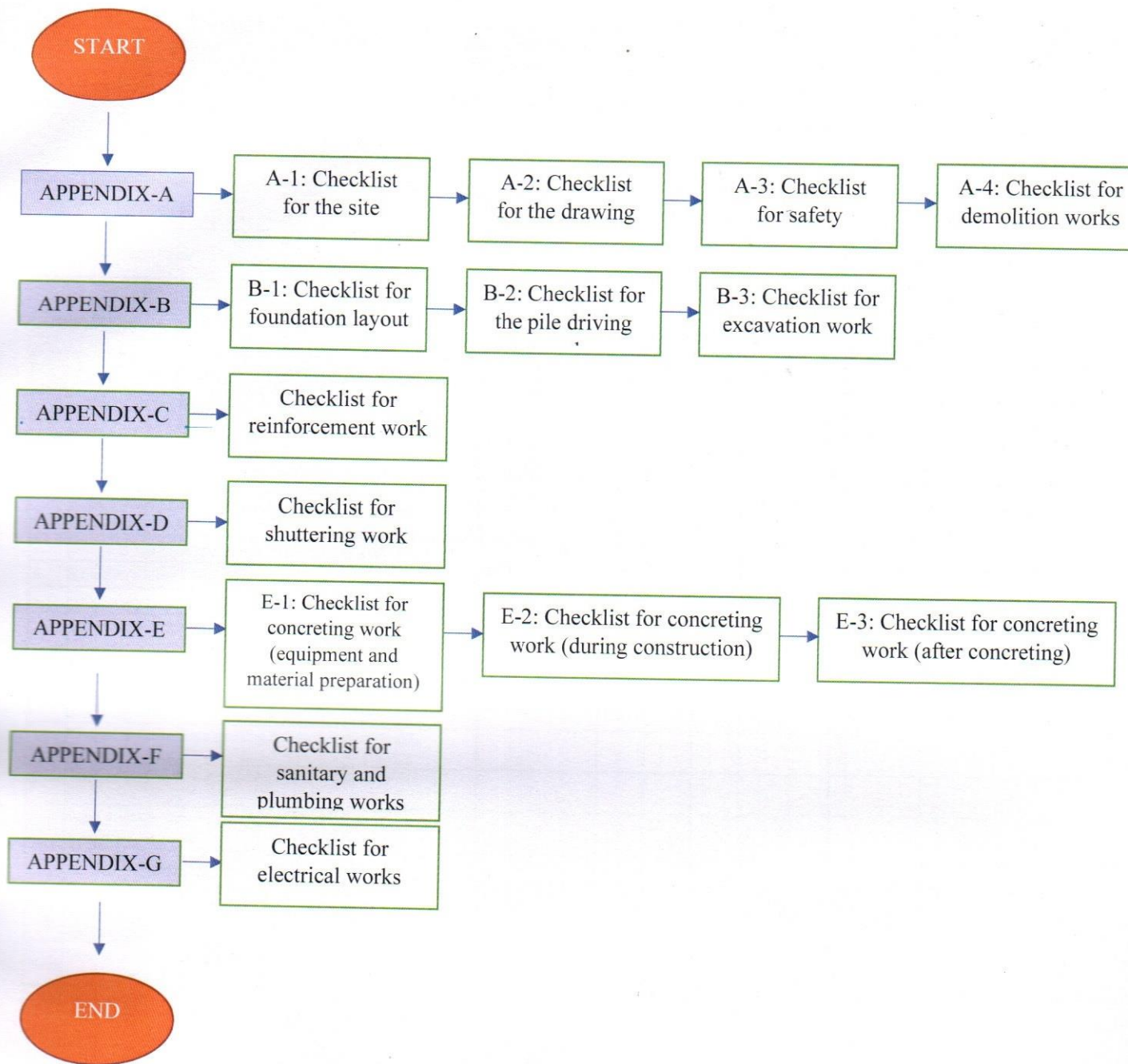




মাঠ পর্যায়ে নির্মাণ কাজ বাস্তবায়নের বিভিন্ন পর্যায়ে  
অনুসরণীয় চেকলিস্ট

জানুয়ারি, ২০২৫



**CONSTRUCTION CHECKLIST**

**APPENDIX A-1 CHECKLIST FOR SITE PREPARATION**

Name of the Project:

Date of inspection:

Location of the Project:

Name of the Sub-Division:

Name of the Division:

**STEP A-1: CHECKLIST FOR THE SITE**

SL. NO.	CHECK ITEM	Reference (if Applicable)			1st Level Checked	2nd Level Checked	Comments
		YES	NO	NA	SAE	SDE	
1	Land ownership documents are available. (having all signatures properly).						
2	Site plan has been approved and kept in the site.						
3	Location of Site Office is indicated and constructed.						
4	Temporary labor shed is indicated and adequate.						
5	Location of water supply arrangement is indicated and adequate.						
6	Temporary electric connection has been taken.						
7	Location of material storing place is indicated and adequate.						
8	Critical distance from existing building and/or pond is secured.						
9	FGL is fixed with respect to highest flood level and local conditions.						
10	Land disputes with the nearby land owners are solved.						
11	Electric overhead line not passing over the site.						
12	<b>Readiness of Site condition for construction:</b>						
i)	Trees and houses to be removed from site are properly auctioned.						
ii)	Hoarding board has been erected with all necessary information on construction.						
iii)	Site is cleaned, cleared and ready for construction.						

Contractor: Name-

Signature:

SAE Name-

Signature:

SDE: Name-

Signature:

EE: Name-

Signature:

<b>CONSTRUCTION CHECKLIST</b>
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### APPENDIX A-2 CHECKLIST FOR THE DRAWING

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

<b>STEP A-2: CHECKLIST FOR THE DRAWINGS</b>							
---	--	--	--	--	--	--	--

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if Applicable)	YES	NO	NA	SAE	
1	Architectural drawing are approved and kept in the site.						
2	All dimensions of architectural and structural drawing are visible.						
3	Sum of individual dimensions are same as the total dimension.						
4	Architectural drawing and Structural drawing are matching each other (no difference) .						
5	If there any part of the architectural drawing that is to be constructed from it's foundation level like cantilever veranda, duct, etc.? Whether proper measures is taken in this regard.						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**CONSTRUCTION CHECKLIST**

**APPENDIX A-3 CHECKLIST FOR SAFETY**

Name of the Project:

Date of inspection:

Location of the Project:

Name of the Sub-Division:

Name of the Division:

**STEP A-3: CHECKLIST FOR SAFETY**

SL. NO.	CHECK ITEM	Reference (if Applicable)			1st Level Checked	2nd Level Checked	Comments
		YES	NO	NA	SAE	SDE	
1	<b>Safety for labors:</b>						
1)	Insurance policy has been purchased by the Contractor for construction equipment and labor.						
2)	Sufficient helmets (hard Hats) with appropriate color are presented at the site. White - for managers, foremen, engineers or supervisors. Green - for safety inspectors, new or probationary workers. Yellow - for general laborer or earth-moving operators.						
3)	Safety vest made of Bright, Neon colored Fabric design for high visibility are presented.						
4)	Safety masks are presented.						
5)	Safety glasses/ goggles are presented (for protecting eyes particularly from corrosive chemicals, wind blast and radiation.)						
6)	Sufficient gloves are presented.						
7)	Sufficient shoes are presented.						
8)	Safety belt of preventing from falling down are presented.						
9)	Safety Ear-muffs are presented (for protecting ears from hearing loss due to extreme noise.)						
10)	First AID box is equipped.						
11)	Safety practices are being done by laborers, supervisors and engineers.						
12)	Pure drinking water is supplied.						
13)	Safety net is presented.						
14)	Safety fence is presented.						
15)	Warning signboards on instructions for safety operation is presented in/c Police Station/ Hospital/ Fire Station phone no.						
16)	Sufficient number of fire extinguisher are presented.						
2	Safety Equipment's are in good condition.						
3	Scaffolds are erected on solid footing(toe boards) with handrails and tied to structure.						
4	Ropes and cables are in good condition.						
5	The contractor shall certify that the labors are physically and mentally fit for work assigned for.						
6	<b>Safety for power lines:</b>						
1)	Power lines are deactivated or removed or posted with warning signs.						
2)	At least 25-foot horizontal clearance from overhead power line alignment are secured. Measures have been taken to avoid any electrification.						
7	<b>Safety Wearing</b>						
1)	While working Labors, Forman, Site Engineers are mandatorily wearing safety wearing						

Contractor: Name-

Signature:

SAE Name-

Signature:

SDE: Name-

Signature:

EE: Name-

Signature:

**CONSTRUCTION CHECKLIST**

**APPENDIX A-4 CHECKLIST FOR DEMOLITION WORKS**

Name of the Project: \_\_\_\_\_ Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP A-4: CHECKLIST FOR DEMOLITION WORKS**

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if Applicable)	YES	NO	NA	SAE	
1	Engineering survey reports are approved.						
2	Utilities like gas, water and electricity lines are disconnected.						
3	All signs, warning signals, and protective equipment are in place.						
4	Chutes are provided for disposing of materials above 20 feet.						
5	Demolishing plan is accepted by concern engineer.						
6	Hazardous materials/chemicals are removed from any pipes, tanks, or equipment.						

Contractor: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

**CONSTRUCTION CHECKLIST**

**APPENDIX B-1 CHECKLIST FOR FOUNDATION LAYOUT**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP B-1: CHECKLIST FOR FOUNDATION LAYOUT**

SL. NO.	CHECK ITEM	Reference (if applicable)			1st Level Checked	2nd Level Checked	Comments
		YES	NO	NA	SAE	SDE	
1)	Approved Architectural drawings are kept in the site.						
2)	Approved Structural drawings are kept in the site.						
3)	Soil investigation report is kept in the site.						
4)	Construction planning chart (Time frame) are well considered and kept in the site.						
5)	Structural grid line and architectural grid lines are checked properly.						
6)	Foundations of edge columns does not exceed the property line.						
7)	North-South and East-West direction are identified properly at site.						
8)	Bench Mark (BM)/ Temporary BM set at the site.						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**CONSTRUCTION CHECKLIST**

**APPENDIX B-2 CHECKLIST FOR THE PILE DRIVING WORK**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP B-2(a): CHECKLIST FOR THE PILE DRIVING WORK (PRECAST PILE)**

SL. NO.	CHECK ITEM	Reference (if applicable)			1st Level Checked	2nd Level Checked	Comments
		YES	NO	NA	SAE	SDE	
1	Test pile report and design of service pile are kept at the site.						
2	Pile is cast and cured properly; no defect is found.						
3	<b>Driving of pile:</b>						
1)	Level of Pile Top is fixed as per design instruction.						
2)	Pile driving position is Correctly marked on the site.						
3)	Pile lifting position is painted and marked.						
4)	Depth at 8'-0" interval are marked on the pile.						
5)	Pile lifting position is used strictly.						
6)	Pile driving is truly vertical.						
7)	Standard pile driving record is properly maintained.						
8)	Column position is set at center of all pile groups.						
9)	Follower is kept in driving place.						
10)	Hammer weight and fall height comply with design instructions.						
11)	Splicing at pile joint is done properly as per specification.						
12)	Number of blows required for the last 3 feet of a pile is satisfactorily with respect to test pile driving record.						
13)	All safety procedures are strictly followed.						
14)	Type of pile driver equipment complies the instruction of Design Division.						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**CONSTRUCTION CHECKLIST**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP B-2(b): CHECKLIST FOR THE PILE DRIVING WORK (CAST-IN-SITU PILE)**

SL. NO.	CHECK ITEM	Reference (if applicable)				1 <sup>st</sup> Level Checked	2 <sup>nd</sup> Level Checked	Comments
		YES	NO	NA	SAE	SDE		
<b>A. MANDATORY PLANT AND EQUIPMENT</b>								
	Check Proper Construction Equipment's on site. Check the equipment's used for preparation of bore hole and tremie concreting. Ensure that they are running in good condition and there is no possibility of breakdown during the middle of tremie concreting.							
<b>B. SITE PREPARATION AND BORING RECORDS</b>								
1	Check site bore-log layout plan and subsoil investigation report properly.							
2	Examine methods of boring/excavation (Auger/Percussion/Rotary etc.).							
3	Keep boring records for future investigation.							
4	Check final pile toe level.							
5	Measure and check bore hole diameter with slide calipers/others as per drawing.							
6	Check the verticality (Pile driving is truly vertical) of casing.							
7	Check clear distance of piles: <ul style="list-style-type: none"> <li>Augured cast-in-situ pile shall not be installed within 6 pile diameters c/c of a pile filled with concrete less than 24 hours old.</li> <li>Bored cast-in-situ concrete piles shall not be drilled/bored within a clear distance of 3 m from an adjacent pile with concrete less than 48 hours old.</li> </ul>							
8	Check sedimentation test report (maximum siltation is 75mm) at the bottom of the bored hole							
9	Check base cleaning by airlifting or reverse circulation method.							
<b>C. REINFORCEMENT</b>								
1	Check length and outer to outer (o/o) diameter of pile cage.							
2	Check proper placement/arrangement of reinforcement casing as well as circular clear cover blocks as per approved drawing.							
<b>D. CONCRETING AND FLUSHING</b>								
1	Check design cylindrical compressive strength of concrete.							
2	Check funnel depth inside the casing pipe. Ensure that concrete is poured through the funnel connected with tremie pipe.							
3	Measure gap between the tremie and bore bottom (maximum 150 mm). Ensure that bottom of the tremie pipe is always embedded into the fresh concrete (at least 2m depth)							
4	Check slump test of tremie pipe (125 mm to 150 mm).							
5	Check density of Bentonite solution at bore bottom before concreting. If specific gravity of Bentonite suspension is more than 1.25, stop concrete placing.							
6	Ensure minimum cement content of tremie pipe <ul style="list-style-type: none"> <li>Smaller dia 10 m length tremie = 350 kg/m<sup>3</sup></li> <li>Larger dia deeper tremie = 400 kg/m<sup>3</sup></li> </ul>							
7	Check the level of concrete poured at the end of concreting operation. It shall be at least 600 mm (2 ft.) higher than the elevation of the pile at cut-off.							
8	Compare the theoretical volume of the borehole with the volume of concrete poured to see whether there is any difference between the two results.							
9	Check Load Test Data (Pile integrity test report and Pile load test report)							
10	Ensure that all safety procedures are strictly followed.							

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

<b>CONSTRUCTION CHECKLIST</b>
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### APPENDIX B-3 CHECKLIST FOR EXCAVATION WORK

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

#### STEP B-3: CHECKLIST FOR EXCAVATION WORK

SL. NO.	CHECK ITEM					1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	SDE	
1	<b>Preparation prior to excavation work:</b>							
1)	R.L (Reduced level) Sheet of digital survey is available at site before excavation.							
2)	Depth of cutting is finalized with respect to Reduced level.							
3)	EGL is at the same level as that of during soil investigation works i.e no filling has been done after soil investigation works.							
4)	Precaution plans are made to mitigate the risk of any failure of adjacent building/ structures due to excavation.							
2	Brick columns are made for showing FGL, plinth level.							
3	Small Brick pillar has been constructed for fixing column grid lines.							
4	Column grid lines are stable (not dislocated) during earth cutting.							
5	Proper lateral support are ensured for possible earth falling tendency during construction.							
6	BM & TBM is set properly.							
7	Palisading/ shore piles (if any) is ensured.							
8	<b>Actual shape and quality check:</b>							
1)	Excavation is executed to the target depth.							
2)	Foundation bed is properly compacted and leveled.							
3)	Sand over the foundation bed is compacted well.							
4)	Khoa -sand over the foundation bed is compacted well (if applicable)							
5)	Any objectionable object in foundation bed is removed.							

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**CONSTRUCTION CHECKLIST**

**APPENDIX-C CHECKLIST FOR REINFORCEMENT WORK**

Name of the Project:

Date of inspection:

Location of the Project:

Name of the Sub-Division:

Name of the Division:

**STEP C : CHECKLIST FOR REINFORCEMENT WORK**

SL. NO.	CHECK ITEM					1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	SDE	
1	<b>Material of re-bar and re-bar processing:</b>							
1)	Re-bar strength and ductility (grade) are as per design and specifications (supported by Test Reports).							
2)	Hooks and bends are provided appropriately as per specification.							
3)	Rebar is free from any crack or injuries defect.							
4)	Samples are taken and sent for testing.							
2	<b>Re-bar installation:</b>							
1)	Size (Length and Diameter) of re-bar are as per drawing.							
2)	Number of re-bar are as per design.							
3)	Spacing of re-bar are as per design.							
4)	Main re-bar direction are as per design instruction.							
5)	Re-bar is tied with 24G wire (in each and every joint).							
6)	Splice length is accurate.							
7)	Horizontal alignment of re-bar is proper.							
8)	Vertical alignment of rebar is proper.							
9)	Clear cover is set properly (Saline & non-saline).							
10)	Mortar Blocks is set properly.							
11)	Re-bar is cleaned from all loose scale, dirt, and paint oil, grease or other foreign substance.							
3	<b>Special check for footing:</b>							
1)	Vertical rods from pile are embedded in the footing as per drawing.							
2)	Development length, Hook, splices etc. are as per specification.							
3)	Bottom layer re-bar direction is OK as per design.							
4)	Top layer re-bar (both direction) for combine footing/ pile cap are placed properly as per design							
5)	Separator are provided properly between top and bottom re-bar.							
4	<b>Special check for Column:</b>							
1)	Location of splice is at the middle of column.							
2)	Tie spacing is maintained properly.							
3)	Closer tie spacing near splice zone is as per design.							
4)	Inner tie is provided as per design.							
5)	Not more that 50% rod are spliced at any section.							

**CONSTRUCTION CHECKLIST**

5	Special check for slab and beam:							
1)	Stirrup spacing is proper (beam).							
2)	At the Beam-column joint, ties are provided properly as per drawing.							
3)	Length of extra top bar from column/beam face is as per design.							
4)	Crank position of slab reinforcement from beam face is proper.							
5)	Re-bar at middle position for torsion is set proper (for beam).							
6)	Top re-bar lapping is provided at the center of beam.							
7)	Bottom re-bar lapping is provided as shown in the drawing.							
8)	Corner re-bar for slab is provided properly.							
9)	Separator is provided properly between two layer of re- bar.							
10)	Development length and seismic stirrups are placed properly.							

Contractor: Name-

Signature:

SAE Name-

Signature:

SDE: Name-

Signature:

EE: Name-

Signature:

## CONSTRUCTION CHECKLIST

### APPENDIX-D CHECKLIST FOR SHUTTERING WORK

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

#### STEP D: CHECKLIST FOR SHUTTERING WORK

SL. NO.	CHECK- ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	
1	<b>Material, type of shuttering:</b>						
1)	Shuttering materials are proper (steel)						
	Forms are cleaned with steel scraper or steel brush to make it free of rust, mortar encrustations or other foreign material.						
2)	No scrapped/ deformed shutter is used.						
	Gaps/holes in the form are closed with paper, putty or with thin metal steels to prevent leakage of cement grout.						
4)							
2	<b>Support, props:</b>						
1)	Quality of prop is proper. (steel piles)						
2)	Interval of props are satisfactory. (maximum 2.5ft)						
3)	Proper struts are used to separate the foundation formworks.						
4)	Props at both ends are tighten.						
5)	Measures are taken to prevent settlement of props at ground level						
6)	Loose props/defective props are removed.						
7)	Proper packing are ensured to check leakage.						
3	<b>Shuttering planning:</b>						
1)	Turn bolt are fixed properly.						
2)	Nuts and bolt are fixed properly.						
3)	Electric conduits are set properly before casting.						
4)	Provision of sanitary ducts are provided properly						
5)	Water tightness is ensured in the formwork.						
6)	Clear cover is set properly (saline & none-saline zone considered)						
7)	All unused polyethene sheets are removed.						
9)	Level of shuttering is proper.						
10)	Horizontal alignment of shuttering is proper.						
11)	Vertical alignment of shuttering is proper.						
4	<b>Special check for pile casting:</b>						
1)	Pile casting platform is perfectly is plane.						
2)	Pile form works are placed straight and size of each pile is ensured.						
3)	Vertical alignment of pile shuttering is proper.						
4)	Measures are taken for Water tightness to ensure quality of concrete						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

<b>CONSTRUCTION CHECKLIST</b>
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Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

<b>STEP D: CHECKLIST FOR SHUTTERING WORK</b>							
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SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	
5	<b>Special check for Footings/ Pile Caps:</b>						
1)	Proper struts are used to separate foundation frameworks.						
2)	Cork sheets are used to separate very adjacent footing foundation.						
6	<b>Special check for columns:</b>						
1)	Use of wooden shutter for column is strictly prohibited, therefore no wooden shutter is used.						
2)	Forms made of 16 SWG steel sheet and angles with holes for fixing and tightening are prepared.						
3)	Height of form is within 5'-6".						
4)	Column form are tighten with nuts and bolts at every hole with T-Bolts by putting jute/ foam gasket in the overlapped surface of the two shutters.						
5)	In addition to turn Bolt and T-Bolt fixing in the column shutter, props as struts in inclined are used.						
6)	Uniform lateral supports are ensured.						
7)	Column shutter is found 100% vertical.						
8)	When location of shuttering height exceeds 12 feet, special type of scaffolding with cross bracing is used.						
9)	Scaffolding is set for safety where it is necessary.						
7	<b>Special check for slab and beams:</b>						
1)	Steel shutter for beams are prepared made of 16 SWG steel sheets with necessary holes and clamps and strong MS Angle Frame.						
2)	Free end of platform sheet of slab is fixed with beam shutter.						
3)	Special strut bolts are used in the middle of deep beam to prevent fattening.						
4)	Special Measures are taken to retail the alignment of edge beams and slabs.						
5)	Steel props are placed @ 2'-6" C/C are used for slab.						
6)	Support for each prop is OK to check against deflection (in case of ground floor slab).						
7)	Form of slab is found leveled properly.						
8)	In case of double height of slab of beam, scaffolding is done as per approved design from Structural design engineer.						
9)	Camber is done (if any)						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**CONSTRUCTION CHECKLIST**

**APPENDIX-E CHECKLIST FOR CONCRETEING WORK**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP-E-1: CHECKLIST FOR CONCRETEING WORK (Equipment and Material Preparation)**

SL. NO.	CHECK ITEM					1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	SDE	
1	<b>Aggregate for concrete material:</b>							
1)	Excessive dust is screened out from coarse aggregate.							
2)	Size of aggregates is satisfactory as per specification.							
3)	Stone chips must be made of crushed stone or boulder							
4)	Both coarse and fine aggregates are free from all organic and deleterious materials.							
5)	Aggregates are well stored on brick soling platform.							
6)	Percent wear of stone chips is below 30% tested by Los Angeles Abrasion test.							
7)	Compressive strength of stone aggregate shall not be less than 36.1 MPa or 5240 Psi.							
8)	Laboratory tests confirm specifications mentioned in Sl. No. (8) and (9)							
2	<b>Grading of coarse aggregates:</b>							
1)	19mm sieve size- passing 95-100% is confirmed.							
2)	9mm sieve size- passing 25-55% is confirmed.							
3)	No. 4 (4.76mm) sieve size- passing 0-10% is confirmed.							
4)	No. 8 (2.38mm) sieve size- passing 0-5% is confirmed.							
5)	Sieve analysis is done and the report confirms above criteria.							
3	<b>Cement for concrete:</b>							
1)	Types of cement is CEM-1 as per specification .							
2)	Quality of cement is satisfied as per specification.							
3)	Cements are well stored, not in a moist environment.							
4)	Laboratory test is done and the report confirms above criteria.							
4	<b>Other materials for concrete:</b>							
1)	Admixture as per specification is presented.							
2)	Water is free from salt and other impurities.							
3)	Spare Vibrator machines and vibrator nozzles are available.							

**CONSTRUCTION CHECKLIST**

4)	Proper levelling Instrument is available at site.						
5)	Aggregate measuring box, sand filter are present at the site.						
6)	Slump testing apparatus is present at site.						
7)	Cylinder testing equipment are present and in well condition.						

Contractor: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

## CONSTRUCTION CHECKLIST

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

### STEP E-2: CHECKLIST FOR CONCRETEING WORK (During Construction)

SL. NO.	CHECK ITEM					1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	SDE	
1	<b>Mix proportion is checked by the engineer:</b>							
1)	Volume of concrete is estimated and the target time is set.							
2)	Admixture is used as per design specification							
2	<b>Manpower for concreting:</b>							
1)	Engineer in charge is present while mixing and placing of concrete							
2)	Work assistant at the mixing point is deputed to count and control the batch as per concrete pouring slip and load count slip.							
3)	Manpower for mixing is enough with respect to volume of work							
4)	During casting sufficient shuttering men are kept for constant watch on prop.							
3	<b>Adequacy of materials:</b>							
1)	Mixing portion of cement, aggregates and sand are investigated as per design specification.							
2)	Adequate Material such as cement, aggregates and sand are presented with respect to volume of work.							
3)	Aggregates are properly soaked							
4)	Aggregates are well graded.							
4	<b>Preparation at the site for concreting:</b>							
1)	For bonding with old concrete, the edges of old concrete are to be broken to give a firm bonding.							
2)	Grouting is used for construction joint.							
3)	Electrical conduit is ensured in proper place.							
4)	Rain protection is arranged.							
5)	Clear cover is monitored before placing of concrete.							
6)	Casting sequence are decided as per consent of engineer in charge.							
5	<b>Adequacy of equipment:</b>							
1)	Chutes, concrete buckets are cleaned and ready for use.							
2)	Adequate Vibrator nozzles are checked and ready for use.							
3)	Tower crane for vertical lifting is provided.							
4)	Thickness checking device is provided.							
6	<b>Mixing of Concrete:</b>							

**CONSTRUCTION CHECKLIST**

1)	Measured quantity of materials as per proportion are dumped in the drum of mixture machine.								
2)	Mixing is executed with required quantity of water for a period of not less than 2 minutes after all material including the water are in the drum.								
3)	Proper water cement ratio is ensured by measuring slump as mentioned below:								
	a. Footing, pile cap, mass concrete 2" maximum								
	b. Precast pile, column, beam, slab 2.5" maximum								
	c. Ready mix concrete (with admixture) 4.0" maximum								
<b>7</b>	<b>After mixing concrete:</b>								
1)	Workability of concrete is adequate (slump is proper).								
2)	Cubes/ Cylinders are taken from the mixing for testing.								
3)	Slump test is conducted and found OK.								
<b>8</b>	<b>Placing of concrete:</b>								
1)	Water is sprayed on surface of shutter/ steel shutter.								
2)	Concrete is placed within 30 minutes after mixing the water.								
3)	Height of free fall concrete is within 5 feet.								
4)	Concrete is laid from one end, then continuously proceeded to the other end.								
5)	Fresh concrete is deposited against concrete which is in position within 45 minutes.								
6)	Thickness is checked @ 3'-0" interval over the concrete slab.								
7)	Frequent movement of labors/others over reinforcement is avoided during casting. Use of plain sheet as walk way for carrying concrete at place.								
8)	During casting, immediate remedial measure are taken in case props get loosened.								
<b>9</b>	<b>Compaction of Concrete:</b>								
1)	For beam and column, concrete compaction is done properly by vibrator.								
2)	Compaction is done within the 15 minutes after the fresh concrete is placed in position.								
3)	Vibrating is stopped as soon as laitance of mortar appears on the surface. (Excessive vibration segregates the mix.)								
4)	Vibrating is executed properly in vertical placement of vibrator.								
5)	Vibrating is executed without touching the re-bar.								
6)	Proper surface vibration of slab surface with thick & plain wooden plank.								

Contractor: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

**CONSTRUCTION CHECKLIST**

Name of the Project: \_\_\_\_\_ Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP E-3: CHECKLIST FOR CONCRETEING WORK (After concreting)**

SL. NO.	CHECK ITEM					Ist Level Checked	2nd Level Checked	Comments
		Reference	YES	NO	NA	SAE	SDE	
1	Movement over concrete surface is avoided within 24 hours.							
2	Concrete surface is kept wet with water till the removal of form work.							
3	Keys in the column-lift are provided for subsequent concreting in the proceeding days.							
4	Slope of slab is adequate and no water-logging problem is occurred.							
5	For roof slab, lime terracing is done in proper way, slope of lime terracing surface is uniform and no water logging problem is found.							

Contractor: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

**APPENDIX-F CHECKLIST FOR PLUMBING WORK**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP F-1: CHECKLIST FOR WATER SUPPLY & STORAGE TANK**

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	
1	Water quality has been checked before usage						
2	Water quality documents or test report is present						
3	Provision for minimum distance has been maintained from potential source of contamination for individual Household water source						
4	Slope of the water supply pipe has been kept as per drawing to prevent the possibility of backflow towards the water source						
5	Water requirement for firefighting provision has been considered						
6	Capacity and elevation of the storage tank meets the drawing						
7	Storage tank is easily accessible for inspection and cleaning						
8	Water tank is made water tight and contamination-free in all respect						
9	Disinfection process has been accomplished after cleaning operation						
10	Storage Tank has been ventilated properly and placed accordingly as per drawing						
11	Vent pipe has been covered by mosquito net/ cowl or another device if necessary						
12	Diameter of drainage pipe for Overhead Water Tank is set according to the drawing						
13	Diameter of overflow pipe for Overhead Water Tank is set according to the drawing						
14	Bottom pipe of Storage tank is easily accessible for cleaning						
15	Manhole and properly designed manhole cover has been provided in the storage tank						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**APPENDIX-F CHECKLIST FOR PLUMBING WORK**

Name of the Project: \_\_\_\_\_ Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP F-2: CHECKLIST FOR PIPE MATERIALS & PIPE WORK**

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	
1	Type of Pipe has been used						
	i)PVC						
	ii) u-PVC						
	iii) GI						
	iv)CPVC						
	v) Others						
2	All installed pipes (i.e. water supply, distribution, sanitation, vent pipe, rain water down pipe, and other if any), fittings and faucets conform drawing requirements in terms of size and quality						
3	Water mains and distribution pipes has been properly tested before usage						
4	Minimum pipe size for hot water distribution has been provided						
5	Specified color for faucets in hot water system has been maintained						
6	Documents or test report related to quality of pipes, fittings and faucets are present						
7	Pressure Test has been performed before concealing or covering the pipes						
8	Piping system has been installed with proper hangers and support/clamps to minimize undue strains and stress						
9	Hanger /clamps spacing is sufficient in both vertical & horizontal directions						
10	Pipes has been placed below the electric conduits or electric cables are properly insulated						
11	Pipe caps/sleeves has been provided						
12	Sufficient elevation of all pipes has been provided						
13	Method used for jointing (threading, adhesion, heat or others)						
14	Jointing of all pipes has been performed in the presence of a competent Engineer						
15	Jointing between different piping for water supply conform to the plumbing drawing						

Contractor: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

**APPENDIX-F CHECKLIST FOR PLUMBING WORK**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP F-3: CHECKLIST FOR SANITARY & DRAINAGE**

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	
1	The fixtures have been installed in correct position and level in accordance to the Plumbing drawing						
2	Water Closet compartment for physically handicapped/ wheelchair users/ ambulant disabled people has been used properly						
3	Relief vent has been provided in case of offsetting the stacks in accordance with drawing						
4	Yoke vent has been provided for the building more than 10-storied in accordance with drawing						
5	Sufficient slope has been provided for the floor/drain leading towards soil/waste pipe						
6	Ventilating pipes has been provided in the building drains intended for carrying waste water or/and sewage water						
7	Appropriate spacing and accessibility of cleanouts has been provided						
8	Appropriate measures such as net/cowl/ grating etc. has been provided						
9	Soil, wastewater, or/and any other sullage/effluent has been discharged properly to the septic tank/ STP/ ETP /Imhoff tank						
10	Soil, wastewater, or/and any other sullage/effluent has been discharged to the city/municipality drain or neighboring environment after the treatment as per the prevalent rules and regulations						
11	Septic tank/STP/ETP/Imhoff tank has been constructed in accordance to the drawing						
12	Refuse chute system has been provided for building higher than 6-storeys and in accordance to the drawings						
13	Sump/suction pit or any other system has been provided in the basement (if any) as per drawing						
14	For the installation of Sump/suction pit, pit cover or others instrument has been placed						
15	Master pit, inspection chambers are constructed in accordance with the plumbing drawing						
16	Manholes are provided in accordance to the drawings						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**CHECKLIST FOR PLUMBING WORK**

Name of the Project: \_\_\_\_\_ Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP F-4: CHECKLIST FOR RAINWATER MANGEMENT**

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference	YES	NO	NA	SAE	
1	Rainwater downpipes has been placed in accordance to the plumbing drawing						
2	More than one rainwater downpipe has been provided for primary roof drainage system to minimize blockage						
3	Appropriate slope has been provided to guide the rainwater to the opening of rainwater collectors						
4	The open end of all rainwater downpipes has been covered with wire net/ cowl/ grating or other media						
5	Roof gutters are of suitable material of required quality						
6	Depth of cover has been ensured in accordance with the drawing						
7	Master pit, inspection chambers are constructed in accordance with the plumbing drawing						
8	Manholes are provided in accordance to the drawings						
9	Rainwater management system has been installed for building having area greater than 300 sqm						
10	Appropriate provision has been undertaken to prevent mixing of rainwater with sewage/ wastewater/silt						
11	Appropriate arrangement is undertaken to ensure drain out of initial rainwater for a certain period						
12	For groundwater recharge, appropriate design has been followed						
13	For groundwater recharge, recommended depth has been attained as per design						
14	Rainwater has been sufficiently disinfected and filtered before usage and quality has been checked						
15	Water quality documents or test report is present						
16	In case of usage of rainwater as domestic purpose, water has been stored and distributed in accordance to the <b>checklist for water supply &amp; storage</b>						
17	In case of usage of rainwater as domestic purpose, water has to be distributed following the <b>checklist for water supply &amp; storage and piping works</b>						

Contractor: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

## APPENDIX G CHECKLIST FOR E/M WORKS

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

### STEP G-1: CHECKLIST FOR ELECTRIFICATION WORK

SL. NO.	CHECK ITEM					1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	SDE	
1)	Are approved Electrical fitting fixtures layout drawings kept in the site.							
2)	Are approved CCTV layout drawings kept in the site.							
3)	Are approved Internet and Intercom layout drawings kept in the site.							
4)	Are approved Dish TV layout drawings kept in the site.							
5)	Are approved Stage Light drawings kept in the site.							
6)	Are approved Sound System drawings kept in the site.							
7)	Are approved EM control room layout drawings kept in the site.							
8)	Are approved Sub Station layout drawings kept in the site.							
9)	Are approved Lightning protection layout drawings kept in the site							
10)	Are approved Solar system drawings kept in the site							
11)	Are approved detailed load calculation kept in the site.							
12)	Are concealed conduit are fixed properly for							
	➤ Electrical fitting fixtureS							
	➤ CCTV layout							
	➤ Internet and Intercom layout							
	➤ Dish TV layout							
	➤ Stage Light							
	➤ Sound System							
13)	Are all components are installed as per proper specifications such as							
	➤ Power Cables							
	➤ Distribution Cables							
	➤ Electrical fitting fixtures							
	➤ CCTV							
	➤ Internet and Intercom							
	➤ Stage Light							
	➤ Sound System							
14)	Are all earth cables are connected properly							
15)	Are all earthing installed properly							
16)	Are all test result satisfied such as							
	➤ Continuity test							
	➤ Earth							
	➤ Earth resistance test							
17)	Are lightning Protection components are installed properly such as							

**APPENDIX G CHECKLIST FOR E/M WORKS**

	➤ Aviation light							
	➤ Air terminals							
	➤ Down conductor							
	➤ Earth electrodes							
18)	Are Solar System components are installed properly such as							
	➤ Solar panels							
	➤ Charge controller/Inverter/ Battery/Energy Meter							

Contractor: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_ Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_ Signature: \_\_\_\_\_

**APPENDIX G CHECKLIST FOR E/M WORKS**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP G-2: CHECKLIST FOR FIRE PROTECTION AND DETECTION WORK**

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	
1	Are approved Fire Detection layout drawings kept in the site.						
2	Are approved Fire Protection layout drawings kept in the site.						
3	Are Approved Staircase Pressurizations drawings kept in the site.						
4	Are fire pump room equipment are installed properly such as						
	➤ Engine driven motor with controller						
	➤ Motor driven motor with controller						
	➤ Jockey pump with controller						
	➤ Others						
5	Are all fire detection components are installed properly as per drawing						
6	Are all fire protection components are installed properly						
7	Are all electrical connection are completed properly						
8	Are fire pump motors are connected with positive suction						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**APPENDIX G: CHECKLIST FOR E/M WORKS**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP G-3: CHECKLIST FOR HVAC WORK**

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	
1	Are approved HVAC drawings kept in the site such as						
	➤ AC drawing						
	➤ Force Ventilation Drawing						
2	Are all out door components are installed properly						
3	Are all in door components are installed properly						
4	Are all punches for riser have properly						
5	Are all duct work are performed properly						
6	Are Indoor to Outdoor piping layout installed properly						
7	Are force ventilation component installed properly						
8	Are all electrical connection are completed properly						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

**APPENDIX G: CHECKLIST FOR E/M WORKS**

Name of the Project: \_\_\_\_\_

Date of inspection: \_\_\_\_\_

Location of the Project: \_\_\_\_\_

Name of the Sub-Division: \_\_\_\_\_

Name of the Division: \_\_\_\_\_

**STEP G-4: CHECKLIST FOR LIFT/ESCALATOR WORK**

SL. NO.	CHECK ITEM				1st Level Checked	2nd Level Checked	Comments
		Reference (if applicable)	YES	NO	NA	SAE	
1	Are approved Lift/Escalator layout drawings kept in the site.						
2	Are all components are installed properly						
3	Are all safety and protection devices installed properly						
4	Are all safety and protection device work properly						
5	Are all electrical connection are completed properly						

Contractor: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SAE Name- \_\_\_\_\_

Signature: \_\_\_\_\_

SDE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

EE: Name- \_\_\_\_\_

Signature: \_\_\_\_\_

নির্মাণ কাজ বাস্তবায়নকালীন সাইটে নিরাপত্তা বিধান এবং  
নির্মাণ কাজে ব্যবহৃত ম্যাটেরিয়ালসমূহের গুণগত মান সংক্রান্ত  
স্লোগান-চার্ট

নির্মাণ কাজ বাস্তবায়নকালীন সাইটে নিরাপত্তা বিধান এবং নির্মাণ কাজে ব্যবহৃত ম্যান্ডিটোরিংসমূহের মূল্যবান সাল সংক্রান্ত কোর্স-চার্ট



ভবনের নকশা অনুমোদন

ভূমি ব্যবহারের ছাড়পত্র সংগ্রহ

টিকাদানের সাথে ভবন মালিক/আবেদনকারীর কাজের চুক্তি সম্পাদন

ভবন মালিক/আবেদনকারী কর্তৃক সাইট প্রকৃতি ও সাইটের পৃথক নিরাপত্তা নিক্তিকরণ

ভবন মালিক/আবেদনকারী কর্তৃক টিকাদারকে সাইট হস্তান্তর

নির্মাণ কাজ শুরুর পূর্বে টিকাদার কর্তৃক সাইট পরিদর্শন ও নিরাপত্তা সংক্রান্ত ব্যবস্থা পর্যালোচনা

নির্মাণ শ্রমিকদের নিরাপত্তা প্রদান

✓ হেলমেট, হেইফটি গার্মস, হ্যাট গ্রাভস, সেইফটি বুট, সেইফটি গ্লোভস, হ্যান্ড শিল্ড সরবরাহ করা।  
 ✓ সেইফটি নেট, সেইফটি ক্যানোপি, রেইলিং, স্ক্যাফোল্ডিং, শার্ট রেইল প্রকৃতির ব্যবস্থা করা।  
 ✓ অস্থায়ী স্কেট নির্মাণ পূর্বেকদের বিধানের ব্যবস্থা করা।  
 ✓ নির্মাণ এলাকায় কাজের সময় মুদ্রাণ পরিবর্তন করা এবং এ সংক্রান্ত সতর্কতামূলক সাইনবোর্ড লাগানো।

✓ নিয়মিত পানি ছিটানোর মাধ্যমে বাতাসে মূলাবালির পরিমাণ কমানোর ব্যবস্থা করা।  
 ✓ শব্দ মূদ্রণের প্রভাব কমানোর জন্য শব্দ গার্ডিং ডে ও সেকাল ৬০০ টা থেকে সন্ধ্যা ৬০০ পর্যন্ত কাজ করা।  
 ✓ শব্দ মূদ্রণের বৈশিষ্ট্য কমাতে আধুনিক প্রযুক্তির যন্ত্রপাতি ও দক্ষ শ্রমিক নিয়োগ করা।  
 ✓ কাজের বাস্তু নির্দিষ্ট স্থানে তুলে রাখা থেকে বাদ রাখা।  
 ✓ প্রাকৃতিক জলাধার এবং ড্রেইনেজ ব্যবস্থার কোন ক্ষতিসাধন না করা।  
 ✓ সাইটে ওয়াটার ট্রিটমেন্ট প্লান্ট স্থাপন করা।  
 ✓ সাইটের নির্দিষ্ট স্থানে ময়লা আবর্জনা ও পেট্রোলিয়াম জাতীয় পদার্থ তুলপকারে রেখে পরবর্তীতে তা দূরবর্তী কোন নিরাপদ স্থানে বেলনা।  
 ✓ সাইটে বেন পানি জমে না থাকে তার ব্যবস্থা করা।  
 ✓ প্রতিদিন কাজ শেষ হলে সাইট সংলগ্ন স্থান পরিষ্কারের ব্যবস্থা করা।

ভবন মালিক/আবেদনকারী কর্তৃক নির্মাণ কাজ শুরুর আবেদন প্রদান

নকশা অনুযায়ী বিডিং লেভেল প্রদান, বেসমার্ক নির্ধারণ, মাটি খনন ও রোপ প্রোটেকশনের ব্যবস্থা গ্রহণ

নিরাপত্তা বেক্সী প্রদান।  
 ✓ সতর্কতামূলক নির্দেশক প্রদান।  
 ✓ নিরাপত্তা প্রহরী নিয়োগ।  
 ✓ বহুতল ভবনের ক্ষেত্রে পরিদর্শনা বরাবর নাইলনের জালের বেক্সী দেয়া।  
 ✓ বহুতল ভবনের ক্ষেত্রে সেইফটি ক্যানোপি ও সেইফটি নেটের ব্যবস্থা করা।  
 ✓ ইলেক্ট্রোস্ট্রাকচারাল যন্ত্রপাতির সঠিক আর্থিং এর ব্যবস্থা করা।  
 ✓ সুরক্ষণ পানি ও পয়ঃনিষ্কাশনের ব্যবস্থা করা।  
 ✓ সাইটে বিদ্যুৎ সরবরাহের ব্যবস্থা করা।  
 ✓ সাইটে পৃথক বৈদ্যুতিক কন্ট্রোল রুম।

কর্তৃকৃত মাটি নিরাপদ পূর্বে অপসারণকৃত মৃত কাউন্সিলের কাজ শুরু করতে হবে।  
 প্রয়োজন হলে শিট পাইল, শোভিং বা প্রেসিং এর মাধ্যমে রোপ প্রোটেকশনের ব্যবস্থা গ্রহণ করতে হবে।  
 মাটি কটার কাজ সম্পন্ন হবার সাথে সাথে নকশা অনুযায়ী ফাউন্ডেশনের কাজ শুরুর করতে হবে।

ফাউন্ডেশনের কাজ

যে সকল বিষয় খোলা রাখতে হবে  
 ✓ ফাউন্ডেশনের নিচে মাটি ভালভাবে কম্প্যাকশন করা হয়েছে কিনা?  
 ✓ নকশা অনুযায়ী ফাউন্ডেশনের মাঠে টিকভাবে বাস্তু দিয়ে লেভেলিং করা হয়েছে কিনা?  
 ✓ ফাউন্ডেশনের ঢালাইয়ের পুরূহ ও কনক্রিটের স্ট্রেংথ নকশা অনুযায়ী ঠিক আছে কিনা?

<p><b>সিনেট</b></p> <ul style="list-style-type: none"> <li>সিনেটের ব্যাপসমূহ অস্থায়ী শেডের অভ্যন্তরে শুকনো স্থানে পলিথিন শিট দিয়ে মুড়িয়ে রাখতে হবে যেন বাতাসের আর্দ্রতার সংস্পর্শে না আসতে পারে।</li> <li>মেঝে থেকে কমপক্ষে ৮" উপরে শুকনো কাঠের পাতাভরের উপর সিনেটের ব্যাপসমু সংরক্ষণ করতে হবে। এছাড়া বাহিরের সোলার থেকে কমপক্ষে ১৮" ভেতরে ব্যাপসমু রাখতে হবে।</li> <li>সর্বোচ্চ ১০ টি সারিতে একসাথে ৪ টি করে ব্যাপ সংরক্ষণ করতে হবে (২৪ ব্যাপ X ৪ ব্যাপ)।</li> <li>ব্যাপের গায়ে "BSTI কর্তৃক অনুমোদিত" লেখা আছে কিনা তা যাচাই করতে হবে।</li> </ul>	<p><b>ইট/ ব্লক</b></p> <ul style="list-style-type: none"> <li>শুকনো শক্ত জমিতে সংরক্ষণ করতে হবে।</li> <li>স্টকের আকার: ১০ ফুট দৈর্ঘ্য, ২ থেকে ৩ টি ইটের সমান প্রস্থ এবং ০৪ ফুট উচ্চতা বিশিষ্ট এবং পাশাপাশি দুইটি স্টকের মধ্যে পূরহ কমপক্ষে ২ ফুট-৮ ইঞ্চি (৮০০ মিমি)।</li> <li>২৮ দিনের কম কিউরিং করা রক ব্যবহার করা যাবে না।</li> <li>ব্যবহারের পূর্বে ইটের আর্দ্রতা এবং গুণগতমান যাচাই করতে হবে।</li> </ul>
<p><b>মাইল্ড স্টিল বার</b></p> <ul style="list-style-type: none"> <li>মেঝে থেকে কমপক্ষে ৮" উপরে শুকনো কাঠের পাতাভরের উপর সংরক্ষণ করতে হবে।</li> <li>আর্দ্র স্থানে সংরক্ষণের ক্ষেত্রে সিনেট কোট দিতে হবে।</li> <li>বিভিন্ন সাইজের বার পৃথকভাবে রাখতে হবে।</li> <li>স্টিল বাসসমূহকে আর্দ্রতা থেকে দূরে রাখতে হবে যেন সূরি না পরে।</li> <li>BSTI কর্তৃক অনুমোদিত কিনা তা যাচাই করতে হবে।</li> </ul>	<p><b>পাথর</b></p> <ul style="list-style-type: none"> <li>শুকনো শক্ত জমিতে সংরক্ষণ করতে হবে।</li> <li>স্টকের আকার: সর্বোচ্চ ১ মিটার (৩'-৩") উচ্চতা বিশিষ্ট।</li> <li>পাশাপাশি দুইটি স্টকের মধ্যে পূরহ কমপক্ষে ২ ফুট-৬ ইঞ্চি।</li> <li>পাথরের গায়ে কোন কাদামাটি বা অপদ্রব্য থাকতে পারবে না।</li> <li>নির্মাণ কাজে ব্যবহারের পূর্বে পরিষ্কার পানি দিয়ে ধুয়ে এপের ব্যবহার করতে হবে।</li> <li>মৃত পাথর/কঙ্কর/নুড়ি পাথর পরিহার করতে হবে।</li> </ul>
<p><b>এগ্রিগেটস (বালু ও খোয়া)</b></p> <ul style="list-style-type: none"> <li>শুকনো, শক্ত ও সমতল জমিতে কাঠের পাতাভরের উপর সংরক্ষণ করতে হবে এবং মোটা পলিথিন দিয়ে ঢেকে রাখতে হবে।</li> <li>স্টকের অভ্যন্তরে কোন পলি, কাদামাটি, জৈব পদার্থ বা অপদ্রব্য থাকতে পারবে না।</li> <li>নির্মাণ কাজে ব্যবহারের পূর্বে পরিষ্কার পানি দিয়ে ধুয়ে ঢালাই দিয়ে হেঁকে অপদ্রব্য দূর করার পর ব্যবহার করতে হবে।</li> <li>নকশায় বর্ণিত স্পেসিফিকেশন অনুসরণ করতে হবে।</li> </ul>	<p><b>কনক্রিট</b></p> <ul style="list-style-type: none"> <li>নকশায় বর্ণিত স্পেসিফিকেশন অনুযায়ী মিশ্রা ডিজাইন যাচাই করতে হবে।</li> <li>কনক্রিট ঢালাইয়ের সময় সাইটের তাপমাত্রা ৩৫ ডিগ্রি সেলসিয়াসের কম হতে হবে।</li> <li>ঢালাই মিশ্রণ তৈরির পর ১ ঘণ্টা অতিবাহিত হলে তা আর ব্যবহার না করা উচিত।</li> <li>কনক্রিট একবার পানি দিয়ে তৈরির পর কাজের সুবিধার্থে পুনরায় পানি বেশানো যাবে না।</li> <li>প্রকৌশলীর মতামত ব্যতীত Admixture ব্যবহার করা যাবে না।</li> <li>সেগ্রিগেশন ও বানিকশ প্রভিডোয়ে বিভিন্ন সাইজের খোয়া/ পাথর ব্যবহার করতে হবে।</li> </ul>

নির্মাণ কাজে ব্যবহৃত মালমালসমূহ নির্মিত পাবলিকের পক্ষে ট্রেস মিলিটার সাইটে সংরক্ষণ

নির্মাণ কাজে ব্যবহৃত মালমালসমূহ নির্মিত পাবলিকের পক্ষে ট্রেস মিলিটার সাইটে সংরক্ষণ

রিমকোর্সিংয়ে নোইস সিলিং এর কাজ

নকশা অনুযায়ী বিয়ার এবং টাই বার স্ক্রিপস এর পোপরিং, সাইজ, বিয়ারের স্ট্রেংথ/প্রোভ, বিয়ার ট্রেস পরিষ্কার রিপোর্ট, মূলতম ক্রিমার কভার, অ্যাপিং শেষ ও গ্যাপিং জোন, ইক, ড্রয়ার, পেস্পার, ব্লক প্রকৃতি যাচাই করতে হবে।

ফরমওয়ার্ক/ সার্টিং এর কাজ

নকশা অনুযায়ী সাইজ, উন্নততা (Verticality), ভার বহন ক্ষমতা, Lateral and Vertical Support প্রকৃতি পর্যালোচনা করতে হবে। এছাড়া কনলাইনমেন্টের সঠিকতা প্রাধ্ব বহ এবং স্কেলের বার দিয়ে যাচাই করতে হবে।





