

Appendix I
(PNAP ADM-18)

Foundation	Things to be audited	Objective/concern
Driven piles		
(A) <u>Materials</u>		
- Steel H-pile	Mill certificates	Proof yield stress
- Precast prestressed Spun concrete pile	Origin	Recognized type
	Physical dimensions	Compliance with approved plans
- Welding electrode	Grade of electrode	Ensure splice joint strength
(B) <u>Supervision personnel</u>		
- RSE, RGE & RSC	Presence of qualified supervisory staff	Compliance with Site Supervision Plan
(C) <u>Final Stage of Piling operation</u>		
- Diesel hammer	Sufficient driving energy and final set	Ascertain piles are driven to suitable founding stratum, complying with approved plans
- Hydraulic hammer	-ditto-	-ditto-
- Drop hammer	-ditto-	-ditto-
(D) <u>Documentation</u>		
- Ground Investigation	Pile tip founding material	Ensure founding stratum is able to sustain the designed load.
- Piling record of completed works	Final set and founding level	Consistency of the as-built level and ground investigation borelog.

Excavation piles		
(A) <u>Materials</u>		
- Bored pile	Grade of concrete, mill certificate for reinforcement	Compliance with approved plans
- Mini-pile	Grade of grout, mill certificate of reinforcement, coupler	-ditto-
- Socket H-pile	Grade of grout and mill certificate of Steel section	-ditto-
(B) <u>Supervision personnel</u>		
- RSE, RGE & RC	Presence of qualified supervisory staff	Compliance with Site Supervision Plan
(C) <u>Completion of excavation</u>		
- Bored pile	Pile depth, diameter, bell-out size	Ensure bored piles are constructed in accordance with the approved plans.
	Actual founding material and pre-drill records	Consistency of founding materials
- Mini-pile & socket H-pile	Pile depth, dip angle for raking pile	Ensure mini-piles are constructed in accordance with the approved plans
Spread Footing		
- Raft/spread footing	Bearing stratum	Ensure suitability of founding material
	Physical dimensions	Compliance with approved plans

Superstructure	Things to be audited	Objective/concern
(A) <u>Reinforced concrete</u>	Hammer test to structural elements	Concrete strength
	Select samples of reinforcing bars for tensile test	Tensile strength
(B) <u>In-situ concrete</u>	Coring tests	Strength of in-situ concrete
(C) <u>Critical elements</u> - Transfer plate	Document showing RSE's acceptance on falsework design by RGBC	Ensure the stability of falsework
	Concreting sequence	Instability of falsework
- Prestressing member	Prestressing profile	Compliance with the approved plans
	Grout vent	Ensure no air entrapped
- Cantilever canopy	Location of construction joint and cover	Ensure safety
(D) <u>Curtain wall & Glass wall</u>	Member size, shape and grade	Compliance with approved plans
	Cast-in anchors	-ditto-

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