

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.

<p>Excavation piles</p> <p>(A) <u>Materials</u></p> <ul style="list-style-type: none"> - Bored pile - Mini-pile - Socket H-pile <p>(B) <u>Supervision personnel</u></p> <ul style="list-style-type: none"> - RSE, RGE & RC <p>(C) <u>Completion of excavation</u></p> <ul style="list-style-type: none"> - Bored pile - Mini-pile & socket H-pile 	<p>Grade of concrete, mill certificate for reinforcement</p> <p>Grade of grout, mill certificate of reinforcement, coupler</p> <p>Grade of grout and mill certificate of Steel section</p> <p>Presence of qualified supervisory staff</p> <p>Pile depth, diameter, bell-out size</p> <p>Actual founding material and pre-drill records</p> <p>Pile depth, dip angle for raking pile</p>	<p>Compliance with approved plans</p> <p>-ditto-</p> <p>-ditto-</p> <p>Compliance with Site Supervision Plan</p> <p>Ensure bored piles are constructed in accordance with the approved plans. Consistency of founding materials</p> <p>Ensure mini-piles are constructed in accordance with the approved plans</p>
<p>Spread Footing</p> <ul style="list-style-type: none"> - Raft/spread footing 	<p>Bearing stratum</p> <p>Physical dimensions</p>	<p>Ensure suitability of founding material</p> <p>Compliance with approved plans</p>

Superstructure	Things to be audited	Objective/concern
(A) <u>Reinforced concrete</u>	Hammer test to structural elements Select samples of reinforcing bars for tensile test	Concrete strength 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 Concreting sequence	Ensure the stability of falsework Instability of falsework
- Prestressing member	Prestressing profile Grout vent	Compliance with the approved plans 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 Cast-in anchors	Compliance with approved plans -ditto-

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