

PLANNING, DESIGN & EXECUTION OF 14 NOS SUPER-SPEACILITY/MULTI-SPEACILITY HOSPITAL UNDER BRGF.

PRELIMINARY REPORT FOR SOIL INVESTIGATION

(The capacity may change after completion and compilation of laboratory test data. It will be reflected in the final soil report)

Health Facility	Standing Water Level	Brief general description of sub-soil	Shallow Foundation				Deep Foundation
			Suggested Depth	Net safe Bearing Capacity	Settlement	Any other information	
Baruipur Hospital (5 Storied)	2.50 m below E.G.L	Midium stiff light brownish grey clayey silt resting over medium dense to dense sand.	2.00 m below E.G.L.	11 T/Sqm. (B≤4.00 m)	within permissible limit	i) Backfilling with proper compaction should be ensured with addition of water if required. ii) Foundation bed should not be kept exposed to atmosphere. It should be covered with compacted mud mat immediately after excavation. Planning should be done accordingly.	Bored and cast-in-situ concrete piles may be adopted as foundation system for the structures. The safe pile load capacity of board and cast-in-situ pile (600 mm dia pile, cut-off level 2.00 m B.G.L. with 28 m & 95 T capacity) may be adopted. c/c spacing of the piles may be taken as 3.00 X dia of pile. The safe load capacity should be verified by pile load test and design load should be chosen accordingly.
Ghatal Hospital (5 Storied)	5.00 m below E.G.L	Midium stiff to stiff/very stiff brownish grey/brown silty clay with gray/yellow patches & gravels & traces. This is resting over medium dense to dense clayey sand/sand with fine mica flakes and very stiff to hard yellowish brown silty clay rusty brown patches thereafter.	2.00 m below E.G.L.	10 T/Sqm. (B≤3.50 m)	within permissible limit	Backfilling should be done in layers with proper compaction & foundation bed/compacted sand bed should not be kept exposed to the atmosphere. The bed in general should be covered with sand or compacted mud mat immediately after excavation. Planning should be done accordingly.	Determination of pile capacity is under process.

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Jhargram Hospital (5 Storied)	5.70 m below E.G.L	Stiff to very stiff reddish brown silty clay with sand/gravels in traces resting over medium dense to dense reddish brown sand with fin mica flakes.	2.00 m below E.G.L.	10 T/Sqm. (B≤3.50 m)	within permissible limit	Backfilling should be done in layers with proper compaction & foundation bed/compacted sand bed should not be kept exposed to the atmosphere. The bed in general should be covered with sand or compacted mad mat immediately after excavation. Planning should be done accordingly.	Determination of pile capacity is under process.
Nayagram Hospital (5 Storied)	3.80 m below E.G.L	Medium stiff/stiff brown to light brown silty clay with sand in varying percentages resting over very stiff sandy silty clay & dense/very dense brown sand with occasional gravels.	1.50 m below E.G.L.	11 T/Sqm. (B≤3.50 m)	within permissible limit	Backfilling should be done in layers with proper compaction & foundation bed/compacted sand bed should not be kept exposed to the atmosphere. The bed in general should be covered with sand or compacted mad mat immediately after excavation. Planning should be done accordingly.	Determination of pile capacity is under process.

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Gopiballavpur Hospital (5 Storied)	4.50 m below E.G.L	Loose to medium dense brown sand with fine mica flakes in traces & gravels in varrying percentages at the lower region.	2.50 m below E.G.L.	12 T/Sqm. (B≤3.50 m)	within permissible limit	Backfilling should be done in layers with proper compaction & foundation bed/compacted sand bed should not be kept exposed to the atmosphere. The bed in general should be covered with sand or compacted mad mat immediately after excavation. Planning should be done accordingly.	Determination of pile capacity is under process.
Punskura Hospital (5 Storied)	3.60 m below E.G.L	Soft/medium stiff brown/gray silty clay/clayey silt resting over dense to light brown sand.	1.50 m below E.G.L.	10 T/Sqm. (B≤3.50 m)	within permissible limit	Backfilling should be done in layers with proper compaction & foundation bed/compacted sand bed should not be kept exposed to the atmosphere. The bed in general should be covered with sand or compacted mad mat immediately after excavation. Planning should be done accordingly.	Determination of pile capacity is under process.

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Egra Hospital (5 Storied)	3.80 m below E.G.L	Medium stiff light brownish gray to brown clayey soil resting over sandy/clayey soil of varying thickness.	1.50 m below E.G.L.	11 T/Sqm. (B≤3.50 m)	within permissible limit	Backfilling should be done in layers with proper compaction & foundation bed/compacted sand bed should not be kept exposed to the atmosphere. The bed in general should be covered with sand or compacted mad mat immediately after excavation. Planning should be done accordingly.	Determination of pile capacity is under process.
Borjora Hospital (5 Storied)	3.40 m below E.G.L	Stiff to hard yellowish brown, silty sandy clay traces buffish patches traces mica & nodules below hard reddish murrum about 6.5 m thick underlain by hard whitish gray silty sand/sand silt traces micaceous & calcarious nodules of thickness > 13.00 m.	2.00 m below E.G.L.	10 - 12 T/Sqm.	within permissible limit	Isolated square footing of size 2m X 2m and strip footing of width 2m founded at depth of 2.0 m has been suggested based on subsoil as revealed and recommended as 12 t/Sqm & 10 t/Sqm respectively.	Safe load carrying capacity of 500 mm dia RCC bored cast in situ piles of embedded length of 20 m below cut-off level of 1.0 m has also been estimated and recommended as 40 tonnes.

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Jangipur Hospital (5 Storied)	1.00 m below E.G.L	Medium stiff brownish gray silty clay about 9.0 m thick underlain by stiff to very stiff brownish gray silty clay with calcareous nodules of thickness > 11.0 m thick.	2.00 m below E.G.L.	8 - 10 T/Sqm.	within permissible limit	Isolated square footing of size 2m X 2m and strip footing of width 2m founded at depth of 2.0 m has been suggested based on subsoil as revealed and recommended as 8 t/Sqm & 10 t/Sqm respectively.	Safe load carrying capacity of 500 mm dia RCC bored cast in situ piles of embedded length of 20 m below cut-off level of 1.0 m has also been estimated and recommended as 40 tonnes.
Chanchal Hospital (5 Storied)	1.00 m below E.G.L	Medium stiff brownish gray to gray clay soil with mica about 6.0 m thick underlain by medium dense to very dense whitish gray micaceous silty fine to medium sand of thickness > 13.00 m thick.	2.00 m below E.G.L.	7 - 9 T/Sqm.	within permissible limit	Isolated square footing of size 2m X 2m and strip footing of width 2m founded at depth of 2.0 m has been suggested based on subsoil as revealed and recommended as 7 t/Sqm & 9 t/Sqm respectively.	Safe load carrying capacity of 500 mm dia RCC bored cast in situ piles of embedded length of 20 m below cut-off level of 1.0 m has also been estimated and recommended as 40 tonnes.
Raigang Hospital (10 Storied)	1.00 m below E.G.L	Top 0.80 m of soft brown silty clay, loos to very dense yellowish brown/whitish gray micaceous silty fine to medium sand upto depth 20 m underlain by dense to very dense medium to coarse sand.	2.00 m below E.G.L.	8 - 10 T/Sqm.	within permissible limit	Isolated square footing of size 2m X 2m and strip footing of width 2m founded at depth of 2.0 m has been suggested based on subsoil as revealed and recommended as 8 t/Sqm & 10 t/Sqm respectively.	Safe load carrying capacity of 500 mm dia RCC bored cast in situ piles of embedded length of 20 m below cut-off level of 1.0 m has also been estimated and recommended as 40 tonnes.

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Balurghat Hospital (10 Storied)	1.00 m below E.G.L	Loose brownish gray silty fine to medium sand about 3.0 m thick underlain by medium stiff to stiff grayey silty clay with mixed sand at bottom upto 6.50 m underlain by medium dense to very dense yellowish silty brown micaceous silty fine to medium sand of thickness > 13.00 m thick underlain by dense to very dense medium to coarse sand.	2.00 m below E.G.L.	8 - 10 T/Sqm.	within permissible limit	Isolated square footing of size 2m X 2m and strip footing of width 2m founded at depth of 2.0 m has been suggested based on subsoil as revealed and recommended as 8 t/Sqm & 10 t/Sqm respectively.	Safe load carrying capacity of 500 mm dia RCC bored cast in situ piles of embedded length of 20 m below cut-off level of 1.0 m has also been estimated and recommended as 40 tonnes.

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Jalpaiguri Hospital (10 Storied)	4.00 m below E.G.L	Soft to firm dark grey clayey sandy silt, mixed with kankars & traces sand underlain by loose to medium mottled light brownish blue reddish patches silty fine to medium sand mixed with cobbles kankars and micacious about 7.00 m thick underlain by dense very dense to hard light bluish buffish grey blackish patches silty medium coarse sand with cobbles peagravels with traces micacious of thickness 17.00 m thick underlain by dense to very dense coarse sand.	2.00 m below E.G.L.	6 - 8 T/Sqm.	within permissible limit	Isolated square footing of size 2m X 2m and strip footing of width 2m founded at depth of 2.0 m has been suggested based on subsoil as revealed and recommended as 6 t/Sqm & 8 t/Sqm respectively.	Safe load carrying capacity of 500 mm dia RCC bored cast in situ piles of embedded length of 20 m below cut-off level of 1.0 m has also been estimated and recommended as 40 tonnes.

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Suri Hospital (10 Storied)	6.80 m below E.G.L	Farm yellowish brown sandy silty clay, traces ferrogeneous nodules mixed with kankars and mica of avreage thickness 3.50 m hard whitish grey, silty clayey sand mixed with kankars & lime of avg. thickness about 6.50 m underlain by light bluish grey sandy silty clay/sandy clayey silt traces rusty & yellowish patches mixed with kankars & lime of avg. thickness 7.00 m underlain by hard to very hard yellowish brown silty clay with gravels of avg. thickness 3.00 m underlain by dense to very dense medium to coarse sand.	2.00 m below E.G.L.	10 - 12 T/Sqm.	within permissible limit	Isolated square footing of size 2m X 2m and strip footing of width 2m founded at depth of 2.0 m has been suggested based on subsoil as revealed and recommended as 10 t/Sqm & 12 t/Sqm respectively.	Safe load carrying capacity of 500 mm dia RCC bored cast in situ piles of embedded length of 20 m below cut-off level of 1.0 m has also been estimated and recommended as 40 tonnes.