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Department of Technical Education: Tamilnadu
Government College of Engineering, Tirunelveli - 7

From

The Principal
Govt. College of Engineering
Tirunelveli - 627 007

To

The Executive Engineer
Tamilnadu Urban Habitat Development Board
Tirunelveli Division
Tirunelveli - 627007

Report No.162A/SOIL/21/GCE/Civil/Consultancy/2021.Dated: .09.2022.

Sir,

Sub : Consultancy – Soil Investigation – Tamilnadu Urban Habitat Development Board - Tirunelveli Division – Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) in the reconstruction site of dilapidated tenements - Report – Sent.

Ref :
1. Your letter No. Roc No.1973/AE(P)/2021,Dated: 30.11.2021.
2. Report No.162/SOIL/21/GCE/Civil/Consultancy/2021. Dated: 22.12.2021.
3. Your letter No. Nil, Dated: 16.06.2022.

Please find herewith enclosed the report on Soil investigation for the Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony as per your letter cited under reference.

Kindly acknowledge the receipt of the report.

2/9/22
PRINCIPAL

PRINCIPAL
GOVT.COLLEGE OF ENGINEERING
TIRUNELVELI - 627 007.

ENCLOSURE: Soil Investigation Report

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Department of Technical Education: Tamilnadu
Government College of Engineering, Tirunelveli - 7

Report No.162A/SOIL/21/GCE/Civil/Consultancy/2021.Dated: .09.2022.

Soil Investigation Report

Name of the party:	The Executive Engineer Tamilnadu Urban Habitat Development Board Tirunelveli Division Tirunelveli – 627007
Reference:	1.Party's letter Roc No.1973/AE(P)/2021,Date: 30.11.2021. 2.Party's letter No. Nil, Dated: 16.06.2022.
Name of the work:	Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.
Name of the test:	Standard Penetration Test.
Location:	Scavengers' colony, T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District.
Date of the Test:	23.08.2022.
Exploration Work done by:	1. Dr.S.Sidhardhan,PCE/HOD 2. Prof. M.Mohamed Younus, APCE 3. Dr.M.Murugan, APCE

INTRODUCTION :

The soil investigation field work was undertaken by the Civil Engineering Department of Government College of Engineering, Tirunelveli with a view to determine the Safe Bearing Capacity of the soil of the area for the Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.

Standard Penetration Tests were conducted as per IS: 2131-1981 at 5 locations shown by the party. Soil Samples were collected at various depths for laboratory analysis. The sub-soil profiles at the locations are presented in Bore-Log Details with kind of soil at different depths along with the observed SPT – N value. The Water table level was not found at the time of soil investigation in all the locations.

DESCRIPTION OF BORE HOLE NO. 1

Date of test:	23.08.2022.	Report No.162A/SOIL/21/GCE/Civil/Consultancy/2021.
Name of the work:	Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.	
ID of Location:	Bore Hole No.1. Block B1. Scavengers' colony, T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District.	
Name of the Test:	Standard Penetration Test.	

The existing ground level was taken as the reference. The Standard Penetration Test was conducted up to a total depth of 1.75m. The first 0.50m depth was explored by Hand Augers. Made up Soil was observed upto 0.50m depth. Proceeding further, Medium Clayey Sand deposit with N Value of 20 was observed upto 1.75m depth. Proceeding further, Soft Disintegrated Rock formation with N Value of 100 was observed at 1.75m depth.

Further formations are shown in Bore Log Details. The test was terminated at 1.75m.The recommended Safe Bearing Capacity of soil, interpreted from the SPT-N Value is shown in the bore log 1.

BORE LOG 1
(As per I.S. 1892:1979)

Type of Boring: Hand Auger Boring		Date of Start	23.08.2022.
Diameter of Boring: 100mm. Depth of Boring: 0.50m		Date of completion	23.08.2022.
Name of the work: Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.		G.W.T Level: Not Found Soil Investigation done by Department of Civil Engineering Government College of Engineering, Tirunelveli – 627007	

Depth (m) from EGL	Description of strata	Soil Legend	Thickness of strata in 'm'	SPT data			SBC in kN/m²
				SPT N Value	SPT Depth (m)	Relative density	
0.50	Made up Soil		0.50				
1.75	Clayey Sand		1.25	20	1.10	Medium	85
Test terminated	SDR Formation			100	1.75		280

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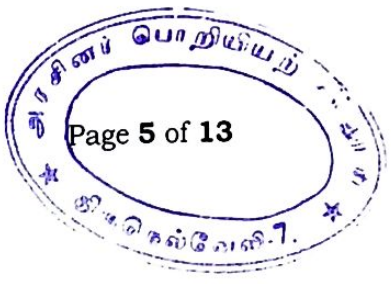
Note: The bore log details are furnished from the soil investigation of representative bore-hole. If any change in soil strata is observed during the excavation for foundation that should be brought to the notice of the Head of the Department, Department of Civil Engineering.

DESCRIPTION OF BORE HOLE NO. 2

Date of test:	23.08.2022.	Report No.162A/SOIL/21/GCE/Civil/Consultancy/2021.
Name of the work:	Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.	
ID of Location:	Bore Hole No.2. Block C1. Scavengers' colony, T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District.	
Name of the Test:	Standard Penetration Test.	

The existing ground level was taken as the reference. The Standard Penetration Test was conducted up to a total depth of 2.00m. The first 0.65m depth was explored by Hand Augers. Made up Soil was observed upto 0.65m depth. Proceeding further, Medium Clayey Sand deposit with N Value of 12 was observed upto 2.00m depth. Proceeding further, Soft Disintegrated Rock formation with N Value of 100 was observed at 2.00m depth.

Further formations are shown in Bore Log Details. The test was terminated at 2.00m.The recommended Safe Bearing Capacity of soil, interpreted from the SPT-N Value is shown in the bore log 2.



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BORE LOG 2
(As per I.S. 1892:1979)

Type of Boring: Hand Auger Boring		Date of Start	23.08.2022.
Diameter of Boring: 100mm. Depth of Boring: 0.65m		Date of completion	23.08.2022.
Name of the work: Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.		G.W.T Level: Not Found Soil Investigation done by Department of Civil Engineering Government College of Engineering, Tirunelveli – 627007	

Depth (m) from EGL	Description of strata	Soil Legend	Thickness of strata in 'm'	SPT data			SBC in kN/m²
				SPT N Value	SPT Depth (m)	Relative density	
0.65	Made up Soil		0.65				
2.00	Clayey Sand		1.35	12	1.25	Medium	60
Test terminated	SDR Formation			100	2.00		280

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Note: The bore log details are furnished from the soil investigation of representative bore-hole. If any change in soil strata is observed during the excavation for foundation that should be brought to the notice of the Head of the Department, Department of Civil Engineering.

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Government College of Engineering, Tirunelveli - 7

DESCRIPTION OF BORE HOLE NO. 3

Date of test:	23.08.2022.	Report No.162A/SOIL/21/GCE/Civil/Consultancy/2021.
Name of the work:	Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.	
ID of Location:	Bore Hole No.3. Block C1. Scavengers' colony, T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District.	
Name of the Test:	Standard Penetration Test.	

The existing ground level was taken as the reference. The Standard Penetration Test was conducted up to a total depth of 1.75m. The first 0.60m depth was explored by Hand Augers. Made up Soil was observed upto 0.60m depth. Proceeding further, Medium Clayey Sand deposit with N Value of 14 was observed upto 1.75m depth. Proceeding further, Soft Disintegrated Rock formation with N Value of 100 was observed at 1.75m depth.

Further formations are shown in Bore Log Details. The test was terminated at 1.75m.The recommended Safe Bearing Capacity of soil, interpreted from the SPT-N Value is shown in the bore log 3.

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BORE LOG 3
(As per I.S. 1892:1979)

Type of Boring: Hand Auger Boring		Date of Start	23.08.2022.
Diameter of Boring: 100mm. Depth of Boring: 0.60m		Date of completion	23.08.2022.
Name of the work: Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.		G.W.T Level: Not Found Soil Investigation done by Department of Civil Engineering Government College of Engineering, Tirunelveli – 627007	

Depth (m) from EGL	Description of strata	Soil Legend	Thickness of strata in 'm'	SPT data			SBC in kN/m²
				SPT N Value	SPT Depth (m)	Relative density	
0.60	Made up Soil		0.60				
1.75	Clayey Sand		1.15	14	1.20	Medium	70
Test terminated	SDR Formation			100	1.75		280

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Note: The bore log details are furnished from the soil investigation of representative bore-hole. If any change in soil strata is observed during the excavation for foundation that should be brought to the notice of the Head of the Department, Department of Civil Engineering.

DESCRIPTION OF BORE HOLE NO. 4

Date of test:	23.08.2022.	Report No.162A/SOIL/21/GCE/Civil/Consultancy/2021.
Name of the work:	Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.	
ID of Location:	Bore Hole No.4. Block C2. Scavengers' colony, T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District.	
Name of the Test:	Standard Penetration Test.	

The existing ground level was taken as the reference. The Standard Penetration Test was conducted up to a total depth of 1.75m. The first 0.75m depth was explored by Hand Augers. Made up Soil was observed upto 0.75m depth. Proceeding further, Loose Clayey Sand deposit with N Value of 5 was observed upto 1.75m depth. Proceeding further, Soft Disintegrated Rock formation with N Value of 100 was observed at 1.75m depth.

Further formations are shown in Bore Log Details. The test was terminated at 1.75m.The recommended Safe Bearing Capacity of soil, interpreted from the SPT-N Value is shown in the bore log 4.

BORE LOG 4
(As per I.S. 1892:1979)

Type of Boring: Hand Auger Boring		Date of Start	23.08.2022.
Diameter of Boring: 100mm. Depth of Boring: 0.75m		Date of completion	23.08.2022.
Name of the work: Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.		G.W.T Level: Not Found Soil Investigation done by Department of Civil Engineering Government College of Engineering, Tirunelveli – 627007	

Depth (m) from EGL	Description of strata	Soil Legend	Thickness of strata in 'm'	SPT data			SBC in kN/m²
				SPT N Value	SPT Depth (m)	Relative density	
0.75	Made up Soil		0.75				
1.75	Clayey Sand		1.00	5	1.20	Losse	40
Test terminated	SDR Formation			100	1.75		280

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Note: The bore log details are furnished from the soil investigation of representative bore-hole. If any change in soil strata is observed during the excavation for foundation that should be brought to the notice of the Head of the Department, Department of Civil Engineering.

DESCRIPTION OF BORE HOLE NO. 5

Date of test:	23.08.2022.	Report No.162A/SOIL/21/GCE/Civil/Consultancy/2021.
Name of the work:	Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.	
ID of Location:	Bore Hole No.5. Block A1. Scavengers' colony, T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District.	
Name of the Test:	Standard Penetration Test.	

The existing ground level was taken as the reference. The Standard Penetration Test was conducted up to a total depth of 2.60m. The first 0.60m depth was explored by Hand Augers. Made up Soil was observed upto 0.60m depth. Proceeding further, Loose Clayey Sand deposit with N Value of 6 was observed upto 2.60m depth. Proceeding further, Soft Disintegrated Rock formation with N Value of 100 was observed at 2.60 depth.

Further formations are shown in Bore Log Details. The test was terminated at 2.60m.The recommended Safe Bearing Capacity of soil, interpreted from the SPT-N Value is shown in the bore log 5.

BORE LOG 5
(As per I.S. 1892:1979)

Type of Boring: Hand Auger Boring		Date of Start	23.08.2022.
Diameter of Boring: 100mm. Depth of Boring: 0.60m		Date of completion	23.08.2022.
Name of the work: Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony.		G.W.T Level: Not Found Soil Investigation done by Department of Civil Engineering Government College of Engineering, Tirunelveli – 627007	

Depth (m) from EGL	Description of strata	Soil Legend	Thickness of strata in 'm'	SPT data			SBC in kN/m²
				SPT N Value	SPT Depth (m)	Relative density	
0.60	Made up Soil		0.60				
2.60	Clayey Sand		2.00	6	1.50	Loose	40
Test terminated	SDR Formation			100	2.60		290

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Note: The bore log details are furnished from the soil investigation of representative bore hole. If any change in soil strata is observed during the excavation for foundation that should be brought to the notice of the Head of the Department, Department of Civil Engineering.

RECOMMENDATIONS:

The proposed Reconstruction of 408 (S+6) Tenements with development works at Dr.Ambedkar Nagar Scheme in T.S.No.2 of Palayamkottai Town & Taluk, Tirunelveli District under PMAY- (U) HFA (AHP) after dismantling the existing 366(G+2) dilapidated tenements at Scavengers colony is a framed structure. Based on the overall site soil condition, it is recommended to adopt Isolated Footing with a depth of 2.60m below the existing ground level. The recommended Safe Bearing Capacity of soil at the suggested foundation depth is 280kN/m². The Structural Design Engineer may choose an alternate foundation based on the Structural loading Conditions.

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