Government of West Bengal
Irrigation & Waterways Directorate
Office of the Superintending Engineer, Western Circle - II
Station Road, Midnapore, Paschim Medinipur.
Phone No: 03222-268495
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CORRIGENDUM-I

Some modification is being made in the RFP No. WBIW/SE/WC-II/RFP- 12(e)/2025-26.
Auction Id: 2025_WB_5099

Due to submission of Final Soil Test Report after invitation of RFP- 12(e)/2025-26, the Last date of online submission is extended upto **31.10.2025 upto 17.00 hrs** instead of 31.10.2025 upto 16.00 hrs. All other terms and condition as laid down in the RFP remain unchanged.

10.10.2025

[Sd/- Asish Dutta]
Superintending Engineer
Western Circle -II
Midnapore, I&W Dte

Memo No: 1149/ (12) ***Date: 10.10.2025***

Copy submitted and forwarded to:

1. The Secretary to the Govt. of West Bengal, I&WD, 1st Floor, Jalasampad Bhawan, Salt Lake, Kolkata-700091
2. The District Magistrate, Paschim Medinipur
3. The Chief Engineer(D&R), I&W Dte., 2nd Floor, Jalasampad Bhawan, Salt Lake, Kolkata-700091
4. The Chief Engineer-South West, I. & W. Dte, Khasjungle, Abash, Midnapore, Paschim Medinipur.
5. The Superintending Engineer, Western Circle-III, Tamluk, Purba Medinipur.
6. The Superintending Engineer, Kangsabati Circle-I, Bankura.
7. The Superintending Engineer, Kangsabati Circle-II, Medinipur, Paschim Medinipur.
8. The Officer in Special Duty & Superintending Engineer, Purulia, Bhatbundh Irrigation Colony, Purulia.
9. Executive Engineer, West Midnapore Division/ KKBP Division/ Jhargram FM&P Division.
10. Notice Board of the office of Superintending Engineer, Western Circle-II, Midnapore.

10.10.2025

[Sd/- Asish Dutta]
Superintending Engineer
Western Circle II
Midnapore, I&W Dte

REPORT
ON
SUB-SOIL INVESTIGATION

FOR

GEOTECHNICAL INVESTIGATION INCLUDING SOIL TESTING OF BED MATERIALS OF OLD COSSYE RIVER FOR A LENGTH OF 10.00 KM IN BLOCK-DASPUR-I, PS.-DASPUR AND DIST. PASCHIM MEDINIPUR

CLIENT

IRRIGATION & WATERWAYS DTE.
WEST MIDNAPORE-DIVISION GOVT.OF WEST BENGAL

SUB SOIL INVESTIGATION REPORT PREPARED BY

PROSENJIT DAS
(8910753768)

NONA ,ULUBERIA,HOWRAH-711315

C O N T E N T S

1. Introduction

Soil exploration, investigation and testing of soil samples for Bed Materials Of Old Cossye River in Block-Daspur-I, P.S-Daspur, Paschim Medinipur was entrusted to Prosenjit Das, "Own House", Nona, Uluberia Howrah, 711315, West Bengal. The objective was to ascertain the subsoil characteristics and stratification and other necessary data of soil condition of the site for the Old Cossye River in Paschim Medinipur. The field work involved in the investigation including boring, recovery of samples and in-situ tests were carried on 03rd October to 04th October, 2025.

The scope of the work comprised of sinking boreholes. It included advancing the boreholes by auger and rotary equipment. The boreholes were of 150 mm in diameter. The scope also included conducting collecting disturbed samples at regular intervals for identification and logging purposes and testing these in the laboratory.

Based on the above, this report presents the subsoil profile and laboratory and field test results. On the basis of field tests and laboratory test results and their analysis thereof, the most suitable type of Selection of Dredging/De-silting/Removal of River/Khal Bed Materials. The field profile was sometimes modified in the light of laboratory test results.

2. Scope of Soil Investigation Work

The objective of the present Soil Investigation work was to study the engineering properties and parameters of subsoil deposits encountered within the depth of exploration for recommending suitable foundations for the specified location.

The scope of the soil investigation work consisted of the following operations:

(a) *Mobilization of Plant & machinery to identified location, and sinking of 150 mm dia. bore hole in all kinds of soil up to a maximum depth of 1.0 m below the existing ground level .*

(b) *During sinking of bore hole, soil samples both in disturbed conditions were to be collected for laboratory tests.*

(c) *Conducting laboratory tests on various soil samples strictly as per relevant IS Codes, for recommending all relevant subsoil design parameters.*

(d) *Preparation & submission of Geotechnical Investigation Report containing all the field investigation and laboratory tests results, graphs, charts, tables etc, along with relevant recommendations on foundation system with safe load carrying capacity etc*

3. Field Exploration

Geotechnical Investigation was envisaged in an attempt for optimization in the design of foundation for the proposed structures to be constructed at this site. The entire Investigation programme had been divided mainly into two parts, I) Field works & II) Laboratory tests.

I) Field works unfold the sub-surface deposit types and their characteristics

II) Laboratory tests part would help determining the relevant physical and geotechnical properties of the sub-surface deposits leading to finalization of the site.

3.1 Boring

The bore holes of 150 mm diameter were explored with the help of Auger . Here the auger was turned in the bottom of the hole through auger pipes. Due to this the soil cuttings were held in the auger and were drawn to the surface by pulling the auger out of the hole each time the auger was filled. In continuation to auger boring shell was used which is a 140mm diameter steel cylinder with a cutting edge at the bottom and was fitted with a hinged one-way flap valve at the bottom. The bore hole was advanced by raising the shell up to a height and allowing it to fall and this was repeated several times till sufficient amount of soil enters the shell. When the shell gets nearly filled with soil, it was lifted out of the bore hole and emptied. Undisturbed soil samples were collected at suitable intervals or at change of strata whichever is met earlier by open drive sampling method since it was intended to ascertain the subsoil characteristics.

3.2 Sampling

Disturbed samples were collected both from from cutting edge for identification and logging purpose. These were tagged and packed in polythene packets and transported to the laboratory. The depth wise locations of all the disturbed samples were used in the preparation of borehole log data and for general identification and classification purposes. The details of boring are presented in the Appendix in the form of bore log sheets.

4. Laboratory Testing

For proper identification and classification of the sub-soil deposits and for deriving adequate information regarding its relevant physical and geotechnical properties at the site under investigation,

In general, the following laboratory tests were conducted on the soil samples collected from the exploratory bore holes:

a) *Grain size distribution (Sieve as well as Hydrometer).*
b) *Sand Content.*

4.1 Grain Size Analysis

The grain-size distributions of a quantity of representative samples were determined from sieve analysis/combined sieve analysis and hydrometer analysis. The results are plotted in the Appendix.

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5. Conclusion and Recommendations

- *The subsoil characteristic for proposed Bed Materials Of Old Cossye River was determined from soil exploration with different boreholes.*
- *The final decision regarding the Selection of Dredging/De-silting/Removal of River/Khal Bed Materials will depend on the judgment of the engineer concerned.*

For Prosenjit Das
Approved by

Prosenjit Das
M.E, MIGS, MIRC,AMIE
MIPHE, MISCA, AIV
Chartered Engineer & APPROVED VALUERS

LABORATORY TEST RESULTS

LABORATORY TEST RESULTS	**CLIENT :-** IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION
	PROJECT:- Soil Investigation for the work for Bed Materials of River Old Cossye

BoreHole No	Chainage	Depth (m)	Type of sample	Description of Strata	BIS Classification	Grain Size Analysis				% Passing IS Sieve 75 micron		
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)			
BH-1	1.00	0.50	D	Brownish Grey, Clayey Silty Sand, mixed with Mica.	-	-	55	28	17	45		
BH-1		1.00	D	Brownish Grey, Clayey Silt, traces of Mica & Sand.	-	-	9	58	33	91		
BH-2	2.00	0.50	D	Yellowish Grey, Silty Sand, mixed with Mica.	-	-	73	27	-	27		
BH-2		1.00	D	Yellowish Grey, Silty Sand, mixed with Mica.	-	-	77	23	-	23		
BH-3	3.00	0.50	D	Reddish Grey, Clayey Silt, traces of Mica & Sand.	-	-	11	57	32	89		
BH-3		1.00	D	Reddish Grey, Clayey Silt, traces of Mica & Sand.	-	-	8	58	34	92		
BH-4	4.00	0.50	D	Brownish Grey, Clayey Silt, mixed with Mica & Sand.	-	-	17	53	30	83		
BH-4		1.00	D	Brownish Grey, Clayey Silt, traces of Mica & Sand.	-	-	10	57	33	90		
BH-5	5.00	0.50	D	Brownish Grey, Clayey Silt, mixed with Mica & Sand.	-	-	16	52	32	84		

D :- Disturbed Sample U :-Undisturbed Sample S :- Standard Penetration Test

LABORATORY TEST RESULTS

LABORATORY TEST RESULTS	CLIENT :- IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION
	PROJECT:- Soil Investigation for the work for Bed Materials of River Old Cossye

BoreHole No	Chainage	Depth (m)	Type of sample	Description of Strata	BIS Classification	Grain Size Analysis				% Passing IS Sieve 75 micron		
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)			
BH-5	5.00	1.00	D	Brownish Grey, Clayey Silt, mixed with Mica & Sand.	-	-	8	60	32	92		
BH-6	6.00	0.50	D	Brownish Grey, Silty Sand, mixed with Mica & traces of Clay.	-	-	69	20	11	31		
BH-6		1.00	D	Brownish Grey, Silty Sand, mixed with Mica & traces of Clay.	-	-	72	19	9	28		
BH-7	7.00	0.50	D	Reddish Grey, Silty Clay, traces of Mica & Sand,	-	-	9	55	36	91		
BH-7		1.00	D	Reddish Grey, Silty Clay, traces of Mica & Sand,	-	-	7	58	35	93		
BH-8	8.00	0.50	D	Brownish Grey, Clayey Silty Sand, mixed with Mica.	-	-	65	22	13	35		
BH-8		1.00	D	Brownish Grey, Clayey Silty Sand, mixed with Mica.	-	-	68	21	11	32		
BH-9	9.00	0.50	D	Brownish Grey, Sandy Clayey Silt, mixed with Mica.	-	-	22	49	29	78		
BH-9		1.00	D	Brownish Grey, Sandy Clayey Silt, mixed with Mica.	-	-	19	50	31	81		

D :- Disturbed Sample U :-Undisturbed Sample S :- Standard Penetration Test

LABORATORY TEST RESULTS

LABORATORY TEST RESULTS	**CLIENT :-** IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION
	PROJECT:- Soil Investigation for the work for Bed Materials of River Old Cossye

BoreHole No	Chainage	Depth (m)	Type of sample	Description of Strata	BIS Classification	Grain Size Analysis				% Passing IS Sieve 75 micron		
						Gravel (%)	Sand (%)	Silt (%)	Clay (%)			
BH-10	10.00	0.50	D	Reddish Grey, Clayey Sandy Silt, mixed with Mica.	-	-	53	28	19	47		
BH-10		1.00	D	Reddish Grey, Silty Sand, mixed with Mica & traces of Clay.	-	-	71	19	10	29		

D :- Disturbed Sample U :-Undisturbed Sample S :- Standard Penetration Test

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

				Field Test	Nos.	Samples	No.
Bore Hole No. :-	BH-1	Borehole Diameter :-	150 mm				
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	03.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	03.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.25Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N		STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
					Type	No.	Depth (m.)		
		Brownish Grey, Clayey Silty Sand, mixed with Mica.			D		0.5		
		Brownish Grey, Clayey Silt, traces of Mica & Sand.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

Bore Hole No. :-	BH-2	Borehole Diameter :-	150 mm	Field Test	Nos.	Samples	No.
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	03.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	03.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.85Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N		STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
					Type	No.	Depth (m.)		
		Yellowish Grey, Silty Sand, mixed with Mica.			D		0.5		
		Yellowish Grey, Silty Sand, mixed with Mica.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

				Field Test	Nos.	Samples	No.
Bore Hole No. :-	BH-3	Borehole Diameter :-	150 mm				
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	03.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	03.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.80Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N		STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
					Type	No.	Depth (m.)		
		Reddish Grey, Clayey Silt, traces of Mica & Sand.			D		0.5		
		Reddish Grey, Clayey Silt, traces of Mica & Sand.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

				Field Test	Nos.	Samples	No.
Bore Hole No. :-	BH-4	Borehole Diameter :-	150 mm				
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	03.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	03.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.70Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N		STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
					Type	No.	Depth (m.)		
		Brownish Grey, Clayey Silt, mixed with Mica & Sand.			D		0.5		
		Brownish Grey, Clayey Silt, traces of Mica & Sand.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

Bore Hole No. :-	BH-5	Borehole Diameter :-	150 mm	Field Test	Nos.	Samples	No.
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	03.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	03.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	NA	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N		STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
					Type	No.	Depth (m.)		
		Brownish Grey, Clayey Silt, mixed with Mica & Sand.			D		0.5		
		Brownish Grey, Clayey Silt, mixed with Mica & Sand.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

Bore Hole No. :-	BH-6	Borehole Diameter :-	150 mm	Field Test	Nos.	Samples	No.
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	04.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	04.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.90Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N		STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
					Type	No.	Depth (m.)		
		Brownish Grey, Silty Sand, mixed with Mica & traces of Clay.			D		0.5		
		Brownish Grey, Silty Sand, mixed with Mica & traces of Clay.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

Bore Hole No. :-	BH-7	Borehole Diameter :-	150 mm	Field Test	Nos.	Samples	No.
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	04.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	04.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.80Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N	STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
				Type	No.	Depth (m.)		
	Reddish Grey, Silty Clay, traces of Mica & Sand,			D		0.5		
	Reddish Grey, Silty Clay, traces of Mica & Sand,			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

Bore Hole No. :-	BH-8	Borehole Diameter :-	150 mm	Field Test	Nos.	Samples	No.
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	04.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	04.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.60Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N	STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
				Type	No.	Depth (m.)		
	Brownish Grey, Clayey Silty Sand, mixed with Mica.			D		0.5		
	Brownish Grey, Clayey Silty Sand, mixed with Mica.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

				Field Test	Nos.	Samples	No.
Bore Hole No. :-	BH-9	Borehole Diameter :-	150 mm				
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	04.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	04.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.50Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N	STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
				Type	No.	Depth (m.)		
	Brownish Grey, Sandy Clayey Silt, mixed with Mica.			D		0.5		
	Brownish Grey, Sandy Clayey Silt, mixed with Mica.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '

BORE LOG DATA SHEET

Client :-	**IRRIGATION & WATERWAYS D.T.E. WEST MIDNAPORE DIVISION**	Job No.
Project/Site :-	**Soil Investigation for the work for Bed Materials from Old Cossye River.**	

Bore Hole No. :-	BH-10	Borehole Diameter :-	150 mm	Field Test	Nos.	Samples	No.
Location No. :-	Old Cossye River	Drill Hole / Pit Size :-					
Commenced on :-	04.10.25	R. L. of Ground :-		SPT	-	Undisturbed	-
Completed on :-	04.10.25	Termination Depth (M):-	1.00Mtr	Vane	-	Water	-
Water Level :-	.30Mtr BGL	Land/Water/Tidal/Boring:-	LAND	Core	-	Disturbed	-

SPT OR N	STRATA DESCRIPTION	Thickness (m.)	Depth (m)	SAMPLES			Core Recovery (%)	R.Q.D. (%)
				Type	No.	Depth (m.)		
	Reddish Grey, Clayey Sandy Silt, mixed with Mica.			D		0.5		
	Reddish Grey, Silty Sand, mixed with Mica & traces of Clay.			D		1.0		

" S " - ' SPT '	" C " - ' CORE '	" U " - ' UNDISTURBED	" D " - ' DISTURBED SAMPLE '	" W " - ' WATER SAMPLE '	" NM " - ' WATER TABLE NOT MET '